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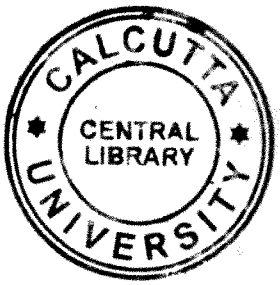
P.C.Ray & The University of Calcutta

56

Editor
Prof Anil Bhattacharya



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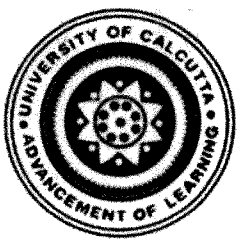

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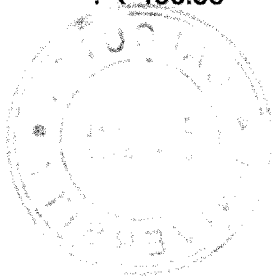

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P.C.Ray & The University of Calcutta

Volume-VI

Preface

Professor Suranjan Das
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&
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To commemorate the 150th birth anniversary of Acharya Prafulla Chandra Ray the University of Calcutta, in collaboration with Acharya Prafulla Chandra College, initiated a project to publish collections of his writings and speeches. Five volumes have already been published. The Acharya had a fruitful and an abiding association with the University of Calcutta for nearly four decades, during which period he remained deeply involved with its Senate, Syndicate and Faculty Councils. The present volume – the sixth in the series – brings together his observations and submissions in various meetings of these decision-making bodies of the University.

The volume unfolds the pioneering role that Prafulla Chandra Ray played in introducing Science education in the Post- graduate level of the University. As we grapple today with issues relating to the development of interaction between basic and applied sciences, promotion of interdisciplinary teaching and research, and motivation for university-industry partnership we can fall back on the thoughts and principles of the Acharya for sustenance. But the other principle which Prafulla Chandra Ray steadfastly pursued was the principle of University autonomy, which has acquired contemporary relevance both in our country and abroad. His refusal to compromise with the University's autonomy even at the cost of sacrificing British government's financial grants stands out as an example worthy of emulation. In fact, our illustrious Vice-Chancellor Sir Asutosh Mookerjee was equally forthright in upholding the cause of University's autonomy. Significantly enough, the country's latest Education Commission Report – popularly known as the Yash Pal Committee Report – also envisages the role of universities to pursue teaching and research within an autonomous and accountable framework of self-governance. The Yash Pal Report thus notes:

> *Any change in the governance structures of a University should be aimed at achieving more autonomy for it ... It has been proved that wherever the higher educational institutions have a governance system which functions with a high degree of autonomy, their performance have earned national and*

international respect not withstanding financial constraints. The absence of any sense of academic and administrative autonomy, introduces a high degree of educational and social distortion.

Our University has always sought to promote its motto 'Advancement of Learning' on the strength of its autonomy of thought, and in tune with principles of equity and justice. This is the legacy bequeathed to us by such illustrious teachers of the institution as Acharya Prafulla Chandra Ray, and we commit ourselves to move forward, enriching this legacy. The present volume will hopefully equip us in continuing with this journey.

As with other preceding volumes, the sixth volume could not have seen the light of the day without the tireless efforts and single-minded devotion of Professor Anil Bhattacharya and his dedicated colleagues. I sincerely thank them for their contribution to make our project a reality. I hope that this volume, like its precursors, will receive wide appreciation from the reading public.

Suranjan Das

Suranjan Das
Vice-Chancellor
University of Calcutta.

Editor's Note

P.C.Ray and The University of Calcutta

Some of the few striking events during the period 1906 to 1944, from the records of the University, are highlighted.

- Rabindranath Tagore once took a loan from Sir T.N.Palit; when during repayment it was revealed that Sir Palit had donated all his assets to the University of Calcutta, *The meeting of the Syndicate dated 27th July, 1917 approved the Secretary's action of receiving Rs. 30,200/- being the principal and interest due from Rabindranath Tagore.*

- In the convocation meeting of the Senate on 2nd March, 1918, satisfaction was expressed about the role of Chemistry Department / output of original works, both as regards quality and quantity and the role of P.C.Ray in particular was also highlighted.

- The convocation meeting of the Senate on 23rd Aug, 1919 highlighted the notable research contributions of C.V.Raman, D.N.Mallik, P.N.Ghosh, Sisir Kumar Mitra and also highlighted the works of reputed School of Chemistry, founded by P.C.Ray along with the researches of different departments.

- The Senate meeting in the 1920's also decided to send P.C.Ray to England to study the latest developments of Chemistry and technological research, so that after his return he would be able to start Technological Department utilizing the large gift donated by Sir Rashbehary Ghosh.

- P.C.Ray was congratulated for donation of his entire salary for furtherance of Chemistry in a meeting of Nov. 3, 1921.

- In 'Times Educational Supplement' Calcutta University was described as a 'Bankrupt University' and the same article was published in the *'Bengalee'* at the request of the then Bengal Government. P.C.Ray and a few others demanded a requisition meeting of the Senate. In the subsequent Senate/Syndicate meetings, P.C.Ray and others raised the whole issue and demanded a meeting of the representatives of the Government and the Senate on that issue and that too was arranged at Simla.

- When the Government's contribution in the form of grant to the Educational Institutions in India is too meagre in case of Calcutta University, P.C.Ray pointed all these facts in the Senate meeting and also convinced others including his critics (if any).

- The Calcutta University at that time in 1926 arranged *'extension lectures'* and on January 10, 1916, Sir P.C.Ray delivered this lecture as Dean of Faculty of Science, the brief resume of which was published in *'Nature'* in its 23rd March, 1916 issue, wherein *'the original Chemical researches carried out in*

Bengal in the last 20 years', as well as *'a list of 126 papers contributed to various Societies'* were also displayed. From all these records it is clear that P.C.Ray, in the field of 'Chemical Research' was able of overcome the obstacles on his days. Mr. Jennings, the then DPI, while visiting Dr.Ray's laboratory in the Presidency College (P.C.Ray was the Dean of Faculty of Science in Calcutta University) remarked "I believe you have been instrumental in founding 'a School of Chemistry'. In the speech towards the end of which he delivered in the Congress of the Universities on "The State and the University" in the Empire as a delegate from the Calcutta University in 1926 he said, *"I hope that the Government of India, or that of Bengal, whichever it may be, will now come forward and give us substantial help for the University College of Science. I have calculated that we have only received two percent help from the Government, whereas 98 percent has been contributed by our own people"*. All these and other relevant issues referred to in the Senate/Syndicate meetings and P.C.Ray's valuable as well as argumentative speeches are in these records.

I would like to mention an incident (records available in this book) which will shed light on Sir P.C.Ray's love for his students. After being convinced of the expertise of a B.Sc. failed in Chemistry student, P.C.Ray appointed him as his fellow scholar and by that time maintained all the provisionary regulatory necessities. P.C.Ray was later on, delighted to see that the student got his D.Sc. degree in Chemical research from the Calcutta University.

That the number of representations from the Senate from all walks of life is immensely important for the well being of the University that also has been expressed in a convincing manner by P.C.Ray as evident in a report submitted to the University as a member of the Senate.

The Government of India in a letter to the University, prescribed for some changes in the existing composition of the Senate to increase considerably the number of nominated members at the expense of elected member. The letter of the Government was placed in the Senate. The existing composition was a follows – 160 members to be elected of nominated as hereunder:

(a) At least $1/4^{th}$ should be elected by the registered teachers of all affiliated colleges.

(b) At least $1/4^{th}$ should be elected by the registered graduates of at least 7 years standing.

(c) $1/10^{th}$ should be elected by the learned Societies and important public bodies.

(d) $1/5^{th}$ should be elected by the teachers in high school under the University.

(e) $1/10^{th}$ should be nominated by the Government.

After reviewing the Senate resolution, the Government redrafted its Bill and reconstituted the Senate which was placed again on 20.12.1930 in the Senate. After discussion in the Senate meeting dated 07.03.1930 the decision was postponed and it was shelved.

Afterwards, after the independence as per Higher Education Commissions' report popularly known as Radhakrishnan Commission's Report, the Act of 1904 was changed and 1951 Act came into effect, which also changed later on. However, at the end of it after the demise of P.C.Ray (16.06.1944) the Senate sat on 24.06.1944 to mourn his death after proper tributes and respect paid to P.C.Ray the Senate took a unanimous decision in the presence of 57 members, including His Excellency the Chancellor, the Vice-Chancellor and of course other dignitaries most of whom were stalwarts.

The resolution was as follows:

(i) In order to perpetuate the memory of Late Sir Praphulla Chandra Ray, and to commemorate his connection with the study of Chemistry in this University, steps be taken to raise a sum of Rs.5,00,000/- for the establishment of a Chair in the University on some Applied branch of Chemistry to be called Sir Praphulla Chandra Ray Professorship in Chemistry.

(ii) The Professorship be in the grade of Rs. 700-50/2-1000.

(iii) A Research Fellowship of the value of Rs. 200 per month be also created under the endowment, the Fellow to work under the guidance of the Professor.

(iv) The Syndicate be authorized to take necessary steps in the matter and to frame detailed rules governing the above Professorship and the Fellowship.

The resolution was also confirmed.

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After publication of the volumes of this series from the Calcutta University the present volume contains Sir P.C.Ray's contributions to the Calcutta University from 1906 to 1944 where he represented the University as a member of the Faculty Council of Science, Arts etc. the Senate and Syndicate Publication of this 6th volume could not have been possible without the necessary and timely approval of the University which would never have been possible without the active and inspiring support of the present Vice-Chancellor Professor Suranjan Das, an energetic and easily approachable educationist. In the last convocation address His Excellency the Chancellor, announced that *"In every respect, Calcutta University is already the Crown jewel of Institutions of higher education today"* - everybody present in the hall applauded the speech.

The documents which are presented in this volume have been collected through the help and cooperation of the Librarian of the Calcutta University, Professor Soumitra

Sarkar and his colleague Sri Pratap Kumar Roy. The documents have been mainly gathered from the computer Laboratory of the Central Library of Calcutta University. Dr. Tapati Ghatak, Associate Professor and Head of the Department of History, Acharya Prafulla Chandra College, New Barrackpore, is associated with the collection of these documents and her contribution is really praiseworthy.

The contribution of Professor Dhrubajyoti Chattopadhyay, Pro-Vice-Chancellor (Academic), Professor Mamata Ray, Pro-Vice-Chancellor (Finance & Business Affairs), Professor Basab Chowdhury, Registrar and last but not the least Sri Pradip Ghosh, Press Superintendent, merit special mention. We are indebted to the printer JÑĀNĀLOK Infotech for this work. The pictures that have been printed in this volume would have never been available without the help of Professor Soumitra Sarkar, Librarian of the Calcutta University and others.

Dr. Saktibrata Bhowmik, Principal, Acharya Prafulla Chandra College, New Barrackpore, has contributed to this publication in many ways. Dr. Ranajit Kumar Basu's help is also praiseworthy. We are indebted to all of them.

This publication will be of a great help in the form of primary source materials for future researchers. Scholars will find this volume highly useful for any discourse on Acharya Prafulla Chandra Ray, on the development of education, particularly of Science, on the contribution of the Calcutta University on the lives of Bengal and on pre-partition Bengal. We hope that the general readers will also appreciate this illuminating piece of work. For the convenience of the readers, the date of meetings etc. are shown in the prologue and the summarised comments of the different meeting records are also placed in the epilogue. The dates of the meetings and page number as shown in the uppermost part are the original one; the page numbers in the lower parts are chronologically mentioned.

(Prof Anil Bhattacharya)
Editor.

Table of Contents

Contents	Page#
Preface	v
Editor's Note	vii
Prologue	xix
Index of Senate Meetings	xix
Index of Syndicate Meetings	xx
Index of Faculty Council Meetings	xxi
Digitally Cleaned content (1224 pages) from the original manuscripts	
Minutes of Provisional Syndicate on 14th Aug, 1906	1
Minutes of the Senate on 29th Aug, 1906	4
Minutes of the Faculty of Science on 3rd Sep, 1906	8
Minutes of the Faculty of Science on 20th Sep, 1906	9
Minutes of the Faculty of Science on 6th Nov, 1906	11
Minutes of the Faculty of Science on 10th Nov, 1906	16
Minutes of Senate on 15th Dec, 1906	17
Minutes of Senate on 26th Jan, 1907	20
Minutes of Senate on 3rd Aug, 1907	24
Minutes of the Syndicate on 9th Aug, 1907	26
Minutes of the Syndicate on 14th Sep, 1907	31
Minutes of the Faculty of Science on 14th Dec, 1907	38
Minutes of the Syndicate on 4th Jan, 1908	41
Minutes of the Syndicate on 18th Jan, 1908	45
Minutes of the Senate on 25th Jan, 1908	49
Minutes of the Senate on 8th Feb, 1908	57
Minutes of the Senate on 22nd Feb, 1908	60
Minutes of the Senate on 14th Mar, 1908	64
Minutes of the Senate on 21st Mar, 1908	90
Minutes of the Faculties of Arts & Science on 11th Apr, 1908	94
Minutes of the Senate on 11th Apr, 1908	100
Minutes of the Syndicate on 14th Dec, 1908	122
Minutes of the Faculty of Science on 19th Dec, 1908	125
Minutes of the Syndicate on 30th Dec, 1908	127
Minutes of the Syndicate on 14th Jan, 1909	130

Minutes of the Syndicate on 8th Jan, 1909 135
Minutes of the Syndicate on 30th Jan, 1909 136
Minutes of the Faculty of Science on 6th Feb, 1909 141
Minutes of the Faculty of Science on 27th Feb, 1909 143
Minutes of the Senate on 13th Mar, 1909 145
Minutes of the Faculty of Science on 3rd Apr, 1909 149
Minutes of the Senate on 10th Jul, 1909 153
Minutes of the Senate on 28th Aug, 1909 156
Jt. Meeting of the Faculties of Arts & Science on 20th Nov,1909 157
Minutes of the Faculty of Arts on 20th Nov, 1909 159
Minutes of the Senate on 4th Dec, 1909 161
Minutes of the Syndicate on 31st Dec, 1909 165
Minutes of the Faculty of Science on 8th Jan, 1910 168
Minutes of the Faculty of Science on 26th Feb, 1910 170
Minutes of the Senate on 29th Jan, 1910 172
Minutes of the Faculty of Science on 5th Feb, 1910 174
Minutes of the Syndicate on 12th Feb, 1910 175
Minutes of the Senate on 9th Apr, 1910 178
Minutes of the Faculty of Science on 9th Apr, 1910 180
Minutes of the Senate on 6th Aug, 1910 184
Minutes of the Senate on 3rd Sep, 1910 187
Minutes of the Syndicate on 1st Oct, 1910 189
Minutes of the Senate on 3rd Dec, 1910 192
Minutes of The Syndicate on 17th Dec, 1910 193
Minutes of the Faculty of Science on 19th Dec, 1910 197
Minutes of the Syndicate on 31st Dec, 1910 199
Report of the Syndicate for the Year 1910 201
Minutes of the Senate on 7th Jan, 1911 204
Minutes of the Faculty of Science on 4th Feb, 1911 206
Minutes of the Faculty of Science on 25th Feb, 1911 207
Minutes of the Senate on 25th Feb, 1911 210
Minutes of the Faculty of Arts on 25th Mar, 1911 213
Minutes of the Faculty of Science on 25th Mar, 1911 214
Minutes of the Senate on 25th Mar, 1911 216
Minutes of the Syndicate on 20th May, 1911 217
Minutes of the Syndicate on 27th May, 1911 220

Minutes of the Syndicate on 1st Dec, 1911 224
Minutes of the Senate on 23rd Dec, 1911 228
Minutes of the Syndicate on 16th Sep, 1911 232
Minutes of the Syndicate on 23rd Sep, 1911 134
Minutes of the Syndicate on 20th Jan, 1912 238
Minutes of the Senate on 27th Jan, 1912 240
Minutes of the Faculty of Science on 3rd Feb, 1912 245
Minutes of the Syndicate on 10th Feb, 1912 246
Minutes of the Senate on 24th Feb, 1912 248
Minutes of the Senate on 5th Oct, 1912 251
Minutes of the Senate on 25th Jan, 1913 158
Minutes of the Annual Meeting of the Senate on 26th Jan, 1913 261
Minutes of the Syndicate on 1st Feb, 1913 266
Minutes of the Syndicate on 12th Apr, 1913 271
Minutes of the Syndicate on 17th May, 1913 274
Minutes of the Syndicate on 31st May, 1913 277
Minutes of the Syndicate on 5th Jul, 1913 281
Minutes of the Syndicate on 2nd Aug, 1913 283
Minutes of the Syndicate on 20th Sep, 1913 286
Minutes of the Syndicate on 6th Dec, 1913 289
Minutes of the Syndicate on 13th Dec, 1913 292
Minutes of the Syndicate on 20th Dec, 1913 294
Minutes of the Syndicate on 26th Dec, 1913 297
Minutes of the Senate on 28th Mar, 1914 312
Minutes of the Syndicate on 9th May, 1914 315
Minutes of the Syndicate on 16th May, 1914 318
Minutes of the Syndicate on 29th Jun, 1914 320
Minutes of the Syndicate on 18th Jul, 1914 323
Minutes of the Syndicate on 24th Jul, 1914 324
Minutes of the Syndicate on 1st Aug, 1914 325
Minutes of the Syndicate on 16th Nov, 1914 328
Minutes of the Syndicate on 5th Dec, 1914 330
Minutes of the Syndicate on 14th Dec, 1914 333
Minutes of the Syndicate on 22nd Dec, 1914 337
Minutes of the Syndicate on 11th Jan, 1915 347
Minutes of the Senate on 23rd Jan, 1915 348

Minutes of the Faculty of Science on 30th Jan, 1915 351
Minutes of the Faculty of Science on 20th Feb, 1915 353
Minutes of the Syndicate on 26th Feb, 1915 355
Minutes of the Senate on 6th Mar, 1915 357
Minutes of the Faculty of Science on 13th Mar, 1915 362
Minutes of the Senate on 13th Mar, 1915 364
Minutes of the Senate 27th Mar, 1915 366
Minutes of the Senate 17th Apr, 1915 367
Minutes of the Syndicate on 24th Apr, 1915 368
Minutes of the Syndicate on 15th May, 1915 371
Minutes of the Syndicate on 14th Aug, 1915 391
Minutes of the Syndicate on 20th Aug, 1915 394
Minutes of the Syndicate on 27th Aug, 1915 396
Minutes of the Syndicate on 10th Sep, 1915 399
Minutes of the Syndicate on 3rd Dec, 1915 402
Minutes of the Syndicate on 30th Oct, 1916 405
Minutes of the Syndicate on 17th Nov, 1916 407
Report of the Syndicate for the Year 1916 423
Minutes of the Syndicate on 19th Jan, 1917 437
Minutes of the Syndicate on 26th Jan, 1917 441
Minutes of the Syndicate on 23rd Feb, 1917 444
Minutes of the Syndicate on 11th May, 1917 451
Minutes of the Syndicate on 4th Jul, 1917 456
Minutes of the Syndicate on 27th Jul, 1917 462
Minutes of the Syndicate on 16th Oct, 1917 464
Minutes of the Syndicate on 21st Dec, 1917 477
Report of the Syndicate for the Year 1917 480
Minutes of the Senate on 12th Jan, 1918 499
Minutes of the Senate on 26th Jan, 1918 500
Minutes of the Senate on 1st Mar, 1918 510
Minutes of the Senate on 2nd Mar, 1918 512
Minutes of the Senate on 9th Mar, 1918 522
Minutes of the Syndicate on 19th Jan, 1918 527
Minutes of the Senate on 23rd Mar, 1918 530
Minutes of the Senate on 29th Jun, 1918 533
Minutes of the Syndicate on 22nd Apr, 1919 535

Minutes of the Senate on 25th Jan, 1919	537
Minutes of the Senate on 26th Apr, 1919	542
Minutes of the Senate on 14th Jun, 1919	545
Minutes of the Senate on 23rd Aug, 1919	558
Minutes of the Senate on 3rd Jan, 1920	564
Minutes of the Faculty of Science on 28th Feb, 1920	622
Minutes of the Faculty of Science on 19th Mar, 1920	624
Minutes of the Senate on 20th Mar, 1920	634
Minutes of the Faculty of Science on 25th Jun, 1920	635
Minutes of the Senate on 14th Aug, 1920	637
Minutes of the Syndicate on 19th Apr, 1921	647
Extract from the Proceedings of the Governing Body of the Sir T. N. Palit Trusts – The 16th April, 1921	657
Minutes of the Syndicate on 1st Jul, 1921	673
Minutes of the Syndicate on 15th Jul, 1921	674
Minutes of the Syndicate on 9th Dec, 1921	677
Report of the Syndicate for the Year 1921	680
Minutes of the Syndicate on 13th Jan, 1922	693
Minutes of the Syndicate on 20th Jan, 1922	695
Minutes of the Syndicate on 10th Feb, 1922	696
Minutes of the Syndicate on 10th Mar, 1922	697
Report on Bethune College (Inspected on 8th Dec, 1921)	699
Minutes of the Syndicate on 31st Mar, 1922	700
Minutes of the Syndicate on 3rd Nov, 1922	705
Minutes of the Syndicate on 10th Nov, 1922	708
Minutes of the Syndicate on 14th Nov, 1922	710
Minutes of the Syndicate on 1st Dec, 1922	711
Minutes of the Syndicate on 15th Dec, 1922	716
Minutes of the Faculty of Science on 7th Jan, 1922	719
Minutes of the Senate on 28th Jan, 1922	721
Minutes of the Faculty of Science on 4th Feb, 1922	723
Minutes of the Faculty of Science on 25th Feb, 1922	724
Minutes of the Senate on 18th Mar, 1922	726
Minutes of the Faculty of Science on 1st Apr, 1922	730
Minutes of the Senate on 8th Apr, 1922	732
Minutes of the Senate on 29th Jul, 1922	735

Minutes of the Senate on 26th Aug, 1922	743
Minutes of the Senate on 11th Nov, 1922	748
Minutes of the Senate on 18th Nov, 1922	762
Minutes of the Senate on 2nd Dec, 1922	774
Minutes of the Faculty of Science on 16th Dec, 1922	820
Report on Bagerhat College, Bagerhat, Khulna (Inspected 6th Jan,	826
Proceedings of the Board of Accounts on 29th Mar, 1923	827
Minutes of the Syndicate on 6th Jul, 1923	829
Minutes of the Syndicate on 27th Jul, 1923	831
Minutes of the Syndicate on 31st Aug, 1923	833
Minutes of the Syndicate on 21st Sep, 1923	835
Minutes of the Syndicate on 10th Nov, 1923	836
Minutes of the Syndicate on 21st Nov, 1923	839
Minutes of the Syndicate on 7th Dec, 1923	842
Minutes of the Syndicate on 9th Feb, 1924	847
Minutes of the Syndicate on 8th Mar, 1924	849
Minutes of the Syndicate on 5th Apr, 1924	851
Minutes of the Faculty of Science on 1st Mar, 1924	855
Minutes of the Senate on 14th Jun, 1924	857
Minutes of the Syndicate on 12th Dec, 1924	861
Proceedings of the Governing Body of the University College of Science - The 5th March, 1925	867
Report on City College (Inspected 22nd Sept, 1924)	870
Report on the Indian Association for the Cultivation of Science (Inspected 16th Dec, 1924)	877
Minutes of the Faculty of Science on 13th Mar, 1926	898
Minutes of the Faculty of Science on 13th Dec, 1926	902
Report of the Syndicate for the year 1927	924
Minutes of the Faculty of Science on 12th Feb, 1927	928
Minutes of the Faculty of Science on 9th Mar, 1927	930
Minutes of the Faculty of Science on 2nd Apr, 1927	932
Minutes of the Faculty of Science on 15th Dec, 1927	937
Minutes of the Faculty of Science on 21st Mar, 1928	949
Minutes of the Faculty of Science on 26th Apr, 1928	952
Minutes of the Faculty of Science on 23rd Jun, 1928	953
Minutes of the Senate on 28th Jul, 1928	954
Minutes of the Faculty of Science on 8th Dec, 1928	957

Minutes of the Faculty of Arts on 5th Jan, 1929	965
Minutes of the Senate on 26th Jan, 1929	973
Minutes of the Faculty of Science on 2nd Feb, 1929	977
Minutes of the Faculty of Science on 25th Feb, 1929	978
Minutes of the Faculty of Science on 19th Mar, 1929	983
Minutes of the Senate on 24th Aug, 1929	988
Minutes of the Faculty of Science on 13th Dec, 1929	999
Minutes of the Senate on 25th Jan, 1930	1006
Minutes of the Faculty of Science on 13th Mar, 1930	1010
Minutes of the Senate on 31st Jan, 1931	1013
Minutes of the Faculty of Science on 19th Sep, 1931	1019
Minutes of the Faculty of Science on 19th Jan, 1932	1027
Minutes of the Senate on 30th Jan, 1932	1029
Minutes of the Faculty of Science on 3rd Mar, 1932	1032
Minutes of the Faculty of Science on 29th Mar, 1932	1034
Minutes of the Senate on 21st Jan, 1933	1039
Minutes of the Faculty of Science on 6th Mar, 1933	1041
Minutes of the Senate on 16th Dec, 1933	1044
Minutes of the Faculty of Science on 3rd Feb, 1934	1049
Minutes of the Faculty of Science on 22nd Feb, 1934	1052
Minutes of the Faculty of Science on 17th Mar, 1934	1054
Minutes of the Senate on 23rd Jun, 1934	1056
Minutes of the Senate on 28th Jul, 1934	1062
Minutes of the Senate on 26th Jan, 1935	1064
Minutes of the Faculty of Science on 23rd Mar, 1935	1070
Minutes of the Senate on 1st Jun, 1935	1073
Minutes of the Senate on 25th Jan, 1936	1075
Minutes of the Faculty of Science on 14th Mar, 1936	1082
Minutes of the Senate on 23rd Jan, 1937	1085
Minutes of the Senate on 17th Feb, 1937	1088
Minutes of the Faculty of Science on 13th Mar, 1937	1090
Minutes of the Senate on 26th Jun, 1937	1092
Minutes of the Senate on 18th Dec, 1937	1096
Minutes of the Faculty of Science on 2nd Mar, 1938	1121
Minutes of the Senate on 5th Mar, 1938	1123
Minutes of the Faculty of Science on 19th Mar, 1938	1030

Minutes of the Faculty of Science on 3rd Jan, 1939 1133
Minutes of the Senate on 28th Jan, 1939 1134
Minutes of the Faculty of Science on 27th Feb, 1939 1139
Minutes of the Faculty of Science on 1st Apr, 1939 1143
Minutes of the Senate on 27th Jan, 1940 1146
Minutes of the Faculty of Science on 17th Feb, 1940 1151
Minutes of the Faculty of Arts on 17th Feb, 1940 1153
Minutes of the Senate on 22nd Mar, 1940 1156
Minutes of the Faculty of Science on 16th Mar, 1940 1172
Minutes of the Senate on 25th Jan, 1941 1175
Minutes of the Faculty of Science on 4th Apr, 1941 1181
Minutes of the Faculty of Science on 20th Jan, 1942 1184
Minutes of the Senate on 31st Jan, 1942 1186
Minutes of the Faculty of Science on 28th Mar, 1942 1191
Minutes of the Faculty of Science on 15th Sep, 1942 1194
Minutes of the Senate on 30th Jan, 1943 1197
Minutes of the Faculty of Science on 3rd Apr, 1943 1201
Minutes of the Faculty of Science on 10th Jan, 1944 1204
Minutes of the Senate on 29th Jan, 1944 1206
Minutes of the Faculty of Science on 26th Feb, 1944 1212
Minutes of the Faculty of Science on 25th Mar, 1944 1214
Minutes of the Senate (special) on 24th Jun, 1944 1217-1224

Epilogue

Summarised view of the Meetings i
Sir P. C. Ray's Role in Calcutta University as recorded in the published book *"Hundred years of the University of Calcutta (1957)"* xxxi
The History of University College of Science and Technology, Calcutta: In the eyes of Dr.S.K.Mitra & Dr.J.N.Mukharjee xxxix
Royal Society honour for the father of Indian chemistry (News item) li

Photographs (32 nos.) **1-12**

Prologue

As a member in the Senate, his presence was registered on 15.12.1906 (Senate meeting). P.C. Ray was either present in the Senate meetings the dates of which are mentioned below, or his references, in the form of his letter of recommendation, were placed.

Senate Meetings

29.08.1906	15.12.1906	26.01.1907	03.08.1907	25.01.1908	22.01.1908
14.03.1908	21.03.1908	11.04.1908	30.01.1909	13.03.1909	10.07.1909
28.08.1909	04.12.1909	29.01.1910	09.04.1910	06.08.1910	03.12.1910
07.01.1911	25.02.1911	25.03.1911	23.12.1911	27.01.1912	24.02.1912
03.10.1912	25.01.1913	28.03.1914	23.01.1915	30.01.1915	20.02.1915
06.03.1915	13.03.1915	27.03.1915	17.04.1915	27.03.1915	12.01.1918
26.01.1918	01.03.1918	02.03.1918	09.03.1918	23.03.1918	29.06.1918
25.01.1919	26.04.1919	14.06.1919	23.08.1919	03.01.1920	20.03.1920
25.06.1920	14.08.1920	14.08.1920	14.08.1920	02.12.1922	08.10.1920
19.04.1921	10.11.1922	07.01.1922	28.01.1922	18.03.1922	08.04.1922
29.07.1922	26.08.1922	11.11.1922	18.11.1922	02.12.1922	05.01.1929
01.03.1922	14.06.1924	28.01.1928	22.07.1928	12.01.1929	26.01.1929
24.08.1929	25.01.1930	13.03.1930	31.01.1931	15.08.1931	19.01.1932
30.01.1932	21.01.1933	16.12.1933	27.01.1934	23.06.1934	28.07.1934
26.01.1935	01.06.1935	25.01.1936	23.01.1937	17.02.1937	26.06.1937
02.03.1940	18.12.1937	22.01.1938	05.03.1938	28.01.1939	25.01.1941
31.01.1942	30.01.1943	29.01.1944	24.06.1944*		

*The Senate meeting dated 24.06.1944 was held in Memory of P.C. Ray

Syndicate Meetings

In the meeting of the provisional Syndicate dated 14.06.1906, P.C. Ray, among others, was nominated as an ordinary fellow of the University by His Excellency the Chancellor, as per letter from the Deputy Secretary to the Govt. of India.

14.12.1906	24.08.1907	14.09.1907	04.01.1908	18.01.1908	08.02.1908
14.12.1908	30.12.1908	14.01.1909	31.12.1909	12.02.1910	03.09.1910
01.10.1910	03.12.1910	17.12.1910	31.12.1910	20.05.1911	27.05.1911
18.01.1913	01.02.1913	15.02.1913	12.04.1913	17.05.1913	31.05.1913
05.07.1913	02.08.1913	20.09.1913	06.12.1913	13.12.1913	20.12.1913
26.12.1913	09.05.1914	16.05.1914	29.06.1914	18.07.1914	24.07.1914
01.08.1914	16.11.1914	05.12.1914	12.12.1914	22.12.1914	07.01.1915
11.01.1915	23.01.1915	26.02.1915	24.04.1915	15.05.1915	14.08.1915
20.08.1915	27.08.1915	10.09.1915	03.12.1915	30.10.1916	17.11.1916
21.12.1916	19.01.1917	26.01.1917	23.02.1917	11.05.1917	04.07.1917
27.07.1917	16.10.1917	14.12.1917	21.12.1917	19.01.1918	22.04.1919
08.04.1921	19.04.1921	08.04.1921	01.07.1921	15.07.1921	09.12.1921
13.01.1922	20.01.1922	10.02.1922	10.03.1922	31.03.1922	29.07.1922
03.11.1922	14.11.1922	01.12.1922	15.12.1922	06.07.1923	27.07.1923
31.08.1923	21.09.1923	10.11.1923	21.11.1923	07.12.1923	10.11.1923
09.02.1924	08.03.1924	05.04.1924	26.07.1924	12.12.1924	01.04.1926
26.02.1926	17.09.1926	26.10.1926	21.01.1927	13.08.1927	02.09.1927

Faculty Council Meetings

In the Provisional Syndicate meeting dated 14th August 1906, Dr. P.C. Ray was nominated in the ordinary fellow of the University as ordinary fellow. In the Faculty of Science, P.C. Ray's presence was first recorded in the meeting on 03rd Sept 1906.

As a member of the Board of studies in Science, Arts and other faculties, P.C. Ray was present in the meetings on the following dates, in the Board of Studies in Chemistry, Board of Studies in Mathematical & Experimental Physics and in the Board of Studies in Zoology.

03.09.1906	20.09.1906	06.11.1906	10.11.1906	14.12.1907	04.01.1908
11.04.1908	19.12.1908	06.02.1909	27.02.1909	03.04.1909	20.11.1909
08.01.1910	26.02.1910	05.02.1910	19.12.1910	04.02.1911	25.02.1911
25.03.1911	03.02.1912	30.01.1915	20.02.1915	13.03.1915	28.02.1920
19.03.1920	07.01.1922	04.02.1922	25.02.1922	01.04.1922	16.12.1922
01.03.1924	21.03.1928	26.04.1928	23.06.1928	08.12.1928	02.02.1929
25.02.1929	19.03.1929	13.12.1929	19.09.1931	03.03.1932	29.03.1932
06.03.1933	03.02.1934	23.03.1934	22.02.1934	17.03.1934	23.03.1935
02.05.1935	19.02.1936	14.03.1936	20.02.1937	02.03.1938	19.03.1938
03.01.1939	27.02.1939	01.04.1939	17.02.1940	16.11.1940	25.01.1941
04.03.1941	20.01.1942	28.03.1942	15.09.1942	03.04.1943	10.01.1944
26.02.1944	25.03.1944				

Digitally Cleaned content (1224 Pages) from the original manuscripts.

Minutes of the Provisional Syndicate

FOR THE YEAR 1906.

No. 6.

THE 14TH AUGUST, 1906.

Special.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
A. MACDONELL, ESQ., M.A.
W. H. A. WOOD, ESQ., M.A., F.C.S., F.R.G.S.
LT.-COL. G.F.A. HARRIS, M.D., F.R.C.P., I.M.S.
C. RUSSELL, ESQ., M.A.
REV. A. B. WANN, M.A., B.D.

164. Read a letter from the Deputy Secretary to the Government of India in the Home Department, intimating that in exercise of the powers conferred by Section 6, clause (*c*) and Section 10 of the Indian Universities Act, 1904 (VIII of 1904), His Excellency the Chancellor of the University is pleased to nominate the following gentlemen to be Ordinary Fellows of the University : —

Babu Nrisinhachandra Mukerji, M.A., B.L.
Babu Lalmohan Das, M.A., B.L.
Colonel R. Macrae, M.B., I.M.S.
Rai Krishnachandra Banerji, Bahadur, B.A.
Rev. J. Lamb, M.A., B.D.
Dr. Prafullachandra Ray, D.Sc.
Mr. A. A. Caspersz, B.A.
Mr. Syed Shams-ul Huda, M.A., B.L.
Dr. T. Bloch, Ph.D.
Mr. Manmohan Ghose, B.A.
Mr. I. H. Burkill, M.A., F.L.S.

Mr. C. H. Browning, M.A.
Mahamahopadhyay Satischandra Acharyya, Vidyabhushan, M.A.
Dr. Hemchandra Sen, M.D.
Rev. R. F. Pearce. M.A.
Major L. Rogers, M.D., F.R.C.S., M.R.C.P., I.M.S.
Dr. N. Annandale, B.A., D.SC.
Major D. M. Moir, M.A., M.D., I.M.S.
Mr. W. W. Hornell, B.A.
Mr. J. A. Cunningham, B.A.
Mr. C. W. Peake, M.A.

ORDERED—

To be recorded

165. The Syndicate then proceeded to make recommendations to the Senate regarding the constitution of the Faculties of Arts, Science, Law, Medicine and Engineering in accordance with the new Regulations.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties of Arts, Science, Law, Medicine and Engineering be constituted as follows :—

***

FACULTY OF SCIENCE.

Rev. Father E. Lafont, S.J., C.I.E., M.I E.E
G. W. Küchler, Esq., M.A.
C. Little, Esq., M.A.
Babu Ramendrasundar Trivedi, M.A.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D.
Dr. C. E. Cullis, M.A., Ph.D.
Babu Brajendranath Sil, M.A.
V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukerjee, Esq., B.SC., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.SC.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G S., F.C.S.
T. H. Holland, Esq., F.R.S , F.G.S., A.R.C.S,

Dr. P. C. Ray, D.Sc.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., I.M.S.
Dr. N. Annandale, B.A., D.Sc.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

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MINUTES OF THE SENATE

FOR THE YEAR 1906.

No. 2.

THE 29TH AUGUST, 1906.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE MOST REV. R. S. COPLESTON, M.A., D.D., LORD BISHOP OF CALCUTTA.
REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.
BABU KALICHARAN BANURJI, M.A., B.L.
DR. P. K. RAY, D. Sc.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L.
DR. RASHBEHARI GHOSE, C.I.E., M.A., D.L.
BABU GAURISANKAR DE, M.A., B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, ESQ, F.R.S.L.
BABU CHANDRANATH BASU, M.A., B.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
SHAMS-UL-ULAMA AHMAD.
C. LITTLE, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
A. MACDONELL, ESQ., M.A.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
SURGEON-GENERAL G. BOMFORD, C.I.E., M.D., I.M.S.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.

W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
LT.-COL. G. F. A. HARRIS, M.D., F.R.C.P., I.M.S.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
C. RUSSELL, Esq., M.A.
REV. A. B. WANN, M.A., B.D.
REV. A. TOMORY, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
A. CHAUDHURI, Esq., M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
P. MUKERJI, Esq., B. Sc., M.R.A.S.
J. N. DASGUPTA, Esq., B.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
THE HON'BLE MR. S. P. SINHA.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
A. E. SILK, Esq., M.Inst. C.E.
RAI TROYLUCKONATH BANERJEE, BAHADUR.
MAULAVI MUHAMMAD YOUSUFF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
HARINATH DE, Esq., M.A.
SHAMS-UL-ULAMA MIRZA ASHRAF ALI.
LT.-COL. C. P. LUKIS, M.D., F.R.C.P., I.M.S.
BABU NRISINHACHANDRA MOOKERJEE, M.A., B.L.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
A. CASPERSZ, Esq., B.A.
MAULAVI SYED SHAMSUL HUDA, M.A., B.L.
I. H. BURKILL, Esq., M.A., F.L.S.
MAHAMAHOPADHYAY SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A.
DR. HEMCHANDRA SEN, M.D.
MAJOR L. ROGERS, M.D., F.R.C.S., I.M.S.
DR. N. ANNANDALE, B.A., D.Sc.
MAJOR D. M. MOIR, M.A., M.D., I.M.S.
W. W. HORNELL, Esq., B.A.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

239. The Vice-Chancellor, in opening the proceedings, said that the meeting had been called for the purpose of forming the Faculties of Arts, Science, Law, Medicine and Engineering in accordance with the new Regulations, to carry on the business of the University in future. The election would be by ballot and voting

Names	*Proposed by—*
I. H. Burkill, Esq., M.A., F.L.S. Dr. N. Annandale, B.A., D.Sc.	Mahamahopadhyay Haraprasad Sastri, M.A., and J.A. Cunningham, Esq., B.A.
Dr. P. C. Ray, D.Sc.	J. N. Dasgupta, Esq., B.A., and J. A. Cunningham, Esq., B.A.
Madhusudan Das, Esq., C.I.E., M.A., B.L.	J. N. Dasgupta, Esq., B.A.
J. A. Cunningham, Esq., B.A.	S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.	Harinath De, Esq., M.A.
The Hon'ble Mr. Justice R. F. Rampini, M.A., LL.D., C.S. Lt.-Col. G. F. A. Harris, M.D., F.R.C.P., I.M.S. Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.	C. W. Peake, Esq., M.A.

On the votes being counted it was found that all the Members proposed were duly elected.

241. The Senate then proceeded to elect members for the remaining Faculties.

The names proposed for the respective Faculties were as follows :—

FACULTY OF SCIENCE.

Names proposed by the Syndicate.

Rev. Father E. Lafont, S.J., C.I.E., M.I.E.E.,
G. W. Küchler, Esq., M.A.
C. Little, Esq., M.A.
Babu Ramendrasundar Trivedi, M.A.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D.,
Dr. C. E. Cullis, M.A., Ph.D.
Babu Brajendranath Sil, M.A.
V. H. Jackson, Esq., M.A.
G. C. Bose, M.A., F.C.S.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.
Dr. P. C. Ray, D.Sc.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., I.M.S.

Dr. N. Annandale, B.A., D.Sc.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

Additional names proposed by Members of the Senate.

Names	*Proposed by—*
Dr. P. K. Ray, D.Sc. Dr. Nilratan Sarkar, M.A., M.D. Dr. Suresprasad Sarbadhikari, B.A., M.D.	Babu Ramendrasundar Trivedi, M.A.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.,	C. W. Peake, Esq., M.A.

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Minutes of the Faculty of Science

FOR THE YEAR 1906.

No. 1.

THE 3RD SEPTEMBER, 1906.

Present:

THE REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E., *Senior Member, in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. NILRATAN SARKAR, M.A., M.D.
DR. SURESPRASAD SARBADHIKARI, M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
DR. P. C. RAY, D.Sc.
DR. N. ANNANDALE, B.A., B.Sc.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

257. The Rev. Father E. Lafont was voted to the Chair.

258. Mr. Manalanabis proposed that Mr. G. W. Küchler, M.A., be elected Dean of the Faculty for the year 1906-1907.

The proposal, which was seconded by Mr. J. A. Cunningham, was carried unanimously.

(Confirmed.)

E. LAFONT, S.J.,
Chairman.

C. LITTLE,
Registrar.

Minutes of the Faculty of Science

FOR THE YEAR 1906.

No. 2.

THE 20TH SEPTEMBER, 1906.

Present:

REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E., *in the Chair.*

DR. P. K. RAY, D.Sc.
C. LITTLE, ESQ., M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. SURESPRASAD SARBADHIKARI, M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
BABU BRAJENDRANATH SIL, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
P. MUKERJEE, Esq., B.Sc., M.R.A.S.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
DR. P. C. RAY, D.Sc.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

351. The Faculty met to elect Added Members in accordance with Section 5, Chapter III, of the new Regulations.

352. Dr. P. K. Ray proposed that in the absence of the Dean of the Faculty, the Rev. Father E. Lafont be voted to the Chair. The proposal was seconded by Dr. Suresprasad Sarbadhikari and carried.

353. The maximum number of Added Members eligible for election was 10, and the names and

qualifications of the persons proposed for election were as follows :—

Name	*Proposed by*—
1. Babu Phanindralal Ganguli, M.A. ...	C. Little, Esq., M.A.

QUALIFICATIONS.

Babu Phanindralal Ganguli is a distinguished graduate of the University in Mathematics, (stood first in the First class in Mathematics, Group B, in 1900) and a Premchand Roychand student.

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2. Babu Jnanchandra Ghosh, M.A. (1887), Professor, Physical Science, Duff College.	Babu Ramendrasundar Trivedi, M.A.

QUALIFICATIONS.

M. A. in Physics, First class, 1887, obtained the University Silver Medal and Prize of books. Teaches Physics in the F. A. and B. A. classes. He was an Entrance Examiner in Geography for five years from 1890 to 1894 and in Mathematics for four years from 1895 to 1898 and has been acting as an Examiner in Physics since 1899.

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3. Babu Birajmohan Majumdar, M.A. (1890), Professor of Science, Bangabasi College.	G. C. Bose, Esq., M.A., F.C.S.

QUALIFICATIONS.

M. A. in Chemistry, 1890. Professor of Science and Mathematics in L.M.S. College, Bhowanipur, from 1891-1898.—Has been teaching Science in the Bangabasi College since 1901. Has been lecturing on Physics in the Indian Association for the Cultivation of Science since 1904 and has been serving as an Examiner in Geography at the Entrance Examination since 1895.

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4. Babu Saratchandra Majumdar. M.A. (1893), Professor of Physics and Mathematics, General Assembly's Institution.	Dr. P. C. Ray, D.Sc.

QUALIFICATIONS.

M. A. in Physics, 1893. Was engaged in Original Research work in Science with Dr. J. C. Bose and Mr. V. H. Jackson for about seven years.

Minutes of the Faculty of Science

FOR THE YEAR 1906.

No. 3.

THE 6TH NOVEMBER, 1906.

Present:

THE REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E., *in the Chair.*

C. LITTLE, Esq., M.A.
DR. NILRATAN SARKAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
DR. C. E. CULLIS, M.A., PH.D.
V. H. JACKSON, Esq., M.A.
G. C. BOSE, Esq., M.A., F.C.S.
P. B. MUKERJEE, Esq., B.Sc., M.R.A.S.
H. E. STAPLETON, Esq., B.A. B.Sc.
W. H. EVERETT, Esq., B.A., B.E., M.I.E.E.,
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. HOLLAND, Esq., F.R.S. F.G.S., A.R.C.S.
DR. P. C. RAY, D.Sc.
I. H. BURKILL, Esq., M.A., F.L.S.
MAJOR L. ROGERS, M.D., F.R.C.S., I.M.S.
DR. N. ANNANDALE, B.A., D.Sc.
J.A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

372. The Faculty met to appoint the several Boards of Studies in accordance with Section I, Chapter V, of the Regulations.

373. The number of members which the Faculty had

to appoint for each of the Boards of Studies numbering 16-19 was fixed by the Syndicate as follows :—

No. 16.	Experimental Psychology	...	Not more than	4.
,, 17.	Mathematics	...	,, ,, ,,	2.
,, 18.	Geography	...	,, ,, ,,	6.
,, 19.	Teaching	...	,, ,, ,,	3.

374. The following are the lists of persons nominated for election to the respective Boards of Studies :—

(10) *Board of Studies in Chemistry.*

Babu Ramendrasundar Trivedi, M.A.
W. H. A. Wood, Esq., M.A., F.C.S., F.R.G.S.
Dr. Suresprasad Sarbadhikari, M.D.
Rai Chunilal Basu, Bahadur, M B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D.
Babu Brajendranath Sil, M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukerjee, Esq., B.SC., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.SC.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G.S. A.R.C.S.
Dr. P. C. Ray, D.SC.
J. A. Cunningham, Esq , B.A.
Babu Chandrabhushan Bhaduri, B.A.

(11) *Board of Studies in Mathematical and Experimental Physics.*

G. W. Küchler, Esq., M.A.
Rev. Father E. Lafont, S.J., C.I.E., M.I.E.E.
C. Little, Esq., M.A.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D.
Dr. C. E. Cullis, M.A., PH.D.
Babu Brajendranath Sil, M A.
V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M A., F C.S.
P. B. Mukerjee, Esq., B.SC., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.SC.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
Dr. P. C. Ray, D.SC.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

375. On a ballot being taken, the following members were declared elected to the Board of Studies in Chemistry:—

Babu Ramendrasundar Trivedi, M.A.
W. H. Arden Wood, Esq., M.A , F.C.S., F.R.G.S.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D.,
P. B. Mukerji, Esq., B.Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
S. C. Mahalanabis Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.

***

Dr. P. C. Ray, D.SC.
J. A. Cunningham, Esq., B.A.
Babu Chandrabhushan Bhaduri, B.A.

376. The result of the ballot taken for election to the Board of Studies in Mathematical and Experimental Physics showed that eleven members were duly elected and that there was a tie between Mr. P. B. Mukerjee and Mr. S. C. Mahalanabis. Mr. P. B. Mukerjee having withdrawn his name in favour of Mr. Mahalanabis, the following members were declared elected :—

G. W. Küchler, Esq., M.A.
Rev. Father E. Lafont, S.J., C.I.E., M.I.E E.
C. Little, Esq., M.A.
Babu Ramendrasundar Trivedi, M.A.
Dr. C. E. Cullis, M.A., Ph.D.
V. H. Jackson, Esq., M.A.
H. E. Stapleton, Esq., B.A., B.SC.
W. H. Everett, Esq., B.A., B.E., M.I.E E.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
J. A Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

377. As the names proposed for the Boards of Studies in Zoology and Geology and Mineralogy, respectively, were less than twelve in number, the Chairman declared that all the candidates nominated were elected. Thus the two Boards were constituted as follows :—

(12) *Board of Studies in Zoology.*

Dr. P. K. Ray, D.SC.
Dr. Nilratan Sarkar, M.A., M.D.
Dr. Suresprasad Sarbadhikari, M.D.
P. B. Mukerji, Esq.. B.SC., M.R.A.S.
S. C. Mahalanbis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R C.S.
Dr. P. C. Ray, D.SC.
Major L. Rogers, M.D., F.R.C.S., I.M.S.
Dr. N. Annandale, B.A., D.SC.

(13) *Board of Studies in Geology and Mineralogy.*

Dr. P. K. Ray, D.SC.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
G. C. Bose, Esq., M.A., F.C.S.

P. B. Mukerji, Esq., B.SC., M.R.A.S.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F C.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.
Dr. P. C. Ray, D.SC.
Dr. N. Annandale, B.A., D.SC.
J. A. Cunningham, Esq., B.A.

378. The ballot taken for election of members to the Board of Studies in Botany resulted in the election of eleven members and a tie between Dr. P. K. Ray and Dr. Upendranath Brahmachari. Dr. Brahmachari having withdrawn his name in favour of Dr. Ray, the following twelve members were declared elected :—

Dr. P. K. Ray, D.SC.
Dr. Suresprasad Sarbadhikari, M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukerji, Esq., B.SC., M.R.A.S.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G S., A.R.C.S.
Dr. P. C. Ray, D.SC.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., I.M.S.
Dr. N. Annandale, B.A., D.SC.

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Minutes of the Faculty of Science

FOR THE YEAR 1906.

No. 4.

THE 10TH NOVEMBER, 1906.

Present:

G. W. KÜCHLER, Esq., M.A., *Dean, in the Chair.*

REV. FATHER E LAFONT, S.J., C.I E, M.I.E.E.
C. LITTLE, Esq., M.A.
DR. NILRATAN SARKAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
DR. C. E. CULLIS, M.A., Ph.D.
V. H. JACKSON, Esq., M.A.
G. C. BOSE, Esq., M.A., F.C.S.
P. B. MUKERJEE, Esq, B.Sc., M.R.A.S.
H. E. STAPLETON, Esq., B.A., B.Sc.
W. H. EVERETT, Esq., B.A., B.E., M.I.E.E.
S C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRUHL, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. HOLLAND, Esq, F.R.S., F.G.S., A R.C.S.
DR. P. C. RAY, D.Sc.
I. H. BURKILL, Esq., M.A., F.L.S.
MAJOR L. ROGERS, M.D., F.R.C.S., I.M.S.
DR. N. ANNANDALE, B.A., D.Sc.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

390. The Faculty met to elect two representatives on the Syndicate for the year 1906-1907, of whom one at least was to be either the Head of or a Professor in a College affiliated to the University.

MINUTES OF THE SENATE

FOR THE YEAR 1906.

No. 5.

THE 15TH DECEMBER, 1906.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair.*

REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.
BABU KALICHARAN BANURJI, M.A., B.L.
DR. P. K. RAY, D. Sc.
SIR GOOROO DASS BANERJEE, Kt, M.A., D.L.
BABU GAURISANKAR DE, M.A., B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
BABU CHANDRANATH BASU, M.A., B.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
SHAMS-UL-ULAMA AHMAD.
BABU UMESCHANDRA DATTA, B.A.
G. W. KUCHLER, Esq., M.A.
C. LITTLE, Esq. M A.
BABU BIPINBIHARI GUPTA, M.A
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
M E. duS. PROTHERO, Esq., M.A
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.

Babu Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
B. Heaton, Esq.
Lt.-Col. G. F. A. Harris, M.D., F.R.C.P., I.M.S.
Dr. Kedarnath Das, M.D.
Dr. Upendranath Brahmachari, M.A., M.D.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
C. Russell, Esq., M.A.
Rev. R. Gee, M.A.
V. H. Jackson, Esq., M.A.
Rev. A. B. Wann, M.A., B.D.
Rev. A. Tomory, M.A.
G. C. Bose, Esq., M.A., F.C.S.
Babu Bhagabati Sahay, M.A., B.L.
Babu Surendranath Banerjee, B.A.
H. E. Stapleton, Esq., B.A., B.Sc.
J. N. Dasgupta, Esq., B.A.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
S. P. Sinha, Esq.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.
Rai Trailokyanath Banerjee, Bahadur.
S. K. Ratcliffe, Esq.
The Hon'ble Syed Shurfuddin.
Maulavi Mahammad Yousuff, Khan Bahadur, B.L.
The Hon'ble Mr. Justice R. F. Rampini, M.A., LL.D.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A., M.R.A.S.
Shams-ul-Ulama Mirza Ashruf Ali.
Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.
Babu Nrisinhachandra Mukerjee, M.A., B.L.
Babu Lalmohan Das, M.A., B.L.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D.Sc.
Maulavi Syed Shamsul Huda, M.A., B.L.
Manmohan Ghose, Esq., B.A.
I. H. Burkill, Esq, M.A. F.L.S.
C. H. Browning, Esq., M.A.
Mahamahopadhyay Satischandra Acharyya, Vidyabhushan, M.A.
Dr. Hemchandra Sen, M.D.
Rev. R. F. Pearce, M.A.
Major L. Rogers, M.D., F.R.C.S., I.M.S.
Dr. N. Annandale, B.A., D.Sc.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

499. The Senate met to elect four representatives on the Syndicate for the year 1906-1907.

University of Calcutta.

MINUTES

FOR THE YEAR

1907.

Calcutta:
PRINTED AT THE HARE PRESS

MINUTES OF THE SENATE

FOR THE YEAR 1907.

No. 1.

THE 26TH JANUARY, 1907.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.
DR. P. K. RAY, D.Sc.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L.
BABU GAURISANKAR DE, M.A., B.I.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
H. M. PERCIVAL, Esq., M.A.
THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.I.
BABU CHANDRANATH BASU, M.A., B.I.
MAHAMAHOPADHYAY HARAPRASAD SASTRI. M.A.
SHAMS-UL-ULAMA AHMAD.
BABU UMESCHANDRA DATTA, B.A.
G. W. KÜCHLER, Esq., M.A.
C. LITTLE, Esq., M.A.
BABU BIPINBIHARI GUPTA. M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
SURGEON-GENERAL G. BOMFORD, C.I.E., M.D., I.M.S.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
M. E. DUS. PROTHERO, Esq., M.A.
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.

THE HON'BLE BABU BHUPENDRA NATH BASU, M.A., B.L.
W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.
REV. E. M. WHEELER, M.A.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
B. HEATON, Esq.
LT.-COL. G. F. A. HARRIS, M.D., F.R.C.P., I.M.S.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
DR. C. E. CULLIS, M.A., PH.D.
DR. E. D. ROSS, PH.D.
MADHUSUDAN DAS, Esq., C.I.E., M.A., B.L.
C. RUSSELL, Esq., M.A.
REV. R. GEE, M.A.
V. H. JACKSON, Esq., M.A.
REV. A. B. WANN, M.A., B.D.
REV. A. TOMORY, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
A. CHAUDHURI, Esq., M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
BABU SURENDRANATH BANERJEE, B.A.
P. B. MUKHARJI, Esq., B.Sc., M.R.A.S.
H. E. STAPLETON, Esq., B.A., B.Sc.
J. N. DASGUPTA, Esq., B.A.
W. H. EVERETT, ESQ., B.A B.E., M.I.E.E.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
THE HON'BLE MR. JUSTICE C. M.W. BRETT, C.S.I.
THE HON'BLE MR. JUSTICE B. G. GEIDT.
S. P. SINHA, Esq.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
A. E. SILK, Esq., M. INST. C. E.
THE HON'BLE MR. W.A. INGLIS.
S. K. RATCLIFFE, Esq.
THE HON'BLE MR JUSTICE SYED SHURFUDDIN.
MAULAVI MUHAMMAD YOUSUFF, KHAN BAHADUR, B.L.
REV. FATHER A. NEUT, S.J.
THE HON'BLE MR JUSTICE R. F. RAMPINI, M.A., LL.D., C.S.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
HARINATH DE, Esq., M.A.
SHAMS-UL-ULAMA MIRZA ASHRUF ALI.
LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJI, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.Sc.
A. A. CASPERSZ, Esq., B.A.
MAULAVI SYED SHAMSUL HUDA, M.A., B.L.
MANMOHAN GHOSE, Esq., B.A.
I.H BURKILL, Esq., M.A., F.L.S.

vernacular schools which derived no benefit from the grants made for primary education is probably equally in need of sympathetic consideration, and I am to suggest that the Government of Bengal will consider the cost of placing these institutions also in a thoroughly satisfactory condition as regards staff and equipment.

9. Finally, I am to refer to the provision of funds for the measures which will be seen to be necessary as the result of the inquiry which the Government of India have suggested.

During recent years the Government of India have made special allotments to provinces in aid of primary education, and also in aid of University and of technical and European education: but they regret that they can hold out no hopes of affording similar assistance from imperial revenues in the present instance. It should be clearly understood that the whole cost of such improvements in secondary education as may be undertaken must be met from provincial revenues.

Mr. Harinath De proposed that a Committee of 7 members of the Senate be appointed to consider the papers on the subject of the General Improvement of Secondary Education throughout India and to report what measures should be adopted to improve Secondary Education in Bengal.

Maulavi Serajul Islam, Khan Bahadur, seconded the proposal which was carried.

Mr. Harinath De proposed that the Committee consist of the following members :—

The Hon'ble the Vice-Chancellor.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L.
Rev. A. Tomory, M.A.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
W. W. Hornell, Esq., B.A.
J. A. Cunningham, Esq., B.A.
Maulavi Syed Shamsul Huda, M.A., B.L.

The following additional names were also proposed :—

G. W. Küchler, Esq., M.A.
Babu Herambachandra Maitra, M.A.
G. C. Bose, Esq., M.A., F.C.S.
J. N. Dasgupta, Esq., B.A.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D.Sc.
C. W. Peake, Esq., M.A.

The following nine gentlemen having withdrawn their names from the Committee,—

Sir Gooroo Dass Banerjee, Kt., M.A., D.L.
G. W. Küchler, Esq., M.A.
Rev. A. Tomory, M.A.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
J. N. Dasgupta, Esq., B.A.
H. E. Stapleton, Esq., B.A., B.Sc.
W. W. Hornell, Esq., B.A.
J. A. Cunningham, Esq., B A.
Dr. P. C. Ray, D.Sc.,

the following remaining seven members were declared elected :—

The Hon'ble the Vice-Chancellor.
Babu Herambachandra Maitra, M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
Maulavi Syed Shamsul Huda, M.A., B.L.
Rev. J. Lamb, M.A., B.D.
C. W. Peake, Esq., M.A.

Mr. Harinath De proposed that the Hon'ble the Vice-Chancellor be the Chairman of the Committee and that the quorum be four.

Rai Debendranath Ray, Bahadur, seconded the proposal which was carried.

63. The Registrar laid before the Senate the papers (already circulated to the members) in connection with the affiliation of the Daulatpur Hindu Academy together with the following Resolution of the Syndicate thereon :—

That the Syndicate report to the Senate that in their opinion the application for the affiliation of the Daulatpur Hindu Academy up to the Intermediate standard in the subjects of English, Sanskrit, Logic, History and Mathematics and in the aforesaid subjects and in Physics and Chemistry for the F.A. Examination in 1908, should be granted."

Babu Debaprasad Sarbadhikari moved that the Government of India be requested to sanction the affiliation of the Daulatpur Hindu Academy up to the standard of the Intermediate Examination in the subjects of English, Sanskrit, Logic, History and Mathematics and in the aforesaid subjects and in Physics and Chemistry for the F.A. Examination in 1908.

MINUTES OF THE SENATE

FOR THE YEAR 1907.

No. 9.

THE 3RD AUGUST, 1907.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. R. F. RAMPINI, M.A., LL.D., C.S., *Acting Chief Justice of Bengal.*

REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.
DR. P. K. RAY, D.Sc.
SIR GOOROO DASS BANERJEE, Kt., M.A., D.L.
BABU GAURISANKAR DE, M.A., B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.I..
C. LITTLE, Esq., M.A.
BABU BIPINBIHARI GUPTA, M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
M. E. duS. PROTHERO, Esq., M.A.
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
REV. E. M. WHEELER, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
REV. A. TOMORY, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
BABU BHAGABATI SAHAY, M.A., B.L.
J. N. DASGUPTA, Esq., B.A.

S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRÜHL, Esq., M I.E.E., F.G.S., F.C.S.
T. H. HOLLAND, Esq., F.R.S., F.G.S., A.R.C.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
MAULAVI MUHAMMAD YOUSUFF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
SHAMS-UL-ULAMA MIRZA ASHRUF ALI.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
REV. J. LAMB, M.A., B.D.
BABU LALMOHAN DAS, M.A., B.L.
DR. P. C. RAY, D.Sc.
I. H. BURKILL, Esq., M.A., F.L.S.
MAHAMAHOPADHYAY SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A.
DR. HEMCHANDRA SEN, M.D
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.
DR. G. THIBAUT, C.I.E., Ph.D.
BABU BINAYENDRANATH SEN, M.A.
REV. E. C. WOODLEY, M.A.

979. The Minutes of the Senate, dated the 6th and 23rd April and the 27th May, 1907, which had previously been circulated to the Members, were taken as read and confirmed.

980. Sir Gooroo Dass Banerjee moved that the following recommendation of the Faculty of Law be adopted:—

"That Mr. S. Ray be elected Tagore Professor of Law for the year 1908 and that the subject of his lectures be "Customs and Customary Law in British India."

The Hon'ble Mr. Justice Saradacharan Mitra seconded the motion which was carried.

981. The Hon'ble the Vice-Chancellor said that the next recommendation of the Syndicate was the adoption of certain modifications in the scheme framed by the Senate for the delivery of the Tagore Law Lectures. There had been considerable delay of late in the publication of these lectures and the lectures for the last seven years had not yet been printed and published. The object of these modifications was to ensure the speedy publication of these lectures in future and he trusted that they would be adopted by the Senate.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1907.

No. 19.

THE 9TH AUGUST, 1907.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

A. EARLE, Esq., C.S.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
G. W. KÜCHLER, Esq., M.A.
C. LITTLE, Esq., M.A.
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
REV. A. TOMORY, M.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
HARINATH DE, Esq., M.A., M.R.A.S.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

997. The Minutes of the Syndicate, dated the 24th July, 1907, were read and confirmed.

998. Read the Minutes of the Faculty of Arts, dated the 27th July, 1907

ORDERED—

To be recorded.

HONOURS COURSE.

In addition to the above.

Miall and Hammond—The Structure and Life-history of the Harlequin Fly.
Miall and Denny—The Cockroach.

1005. On the results of the last Entrance Examination, one of the Rajkrishna-Kshetramani Scholarships was awarded to Dwarkanath Ray of the Rajshahi Collegiate School.

1006. On the results of the last B.A. and B.Sc. Examinations, the Woodrow Scholarship was awarded to Amarendranath Basu of the Duff College and the Amritanath Mitra Prize was awarded to Sukumar Raychaudhuri of the Presidency College, Calcutta.

1007. Read the following Report of the Board of Examiners for the B.E. Examination, 1907 :—

FROM

THE BOARD OF EXAMINERS FOR THE B. E. EXAMINATION,

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Senate House, the 3rd August, 1907.

SIR,

We have the honour to submit, for the approval of the Hon'ble the Vice-Chancellor and Syndicate, the result of the B. E. Examination.

The number of candidates registered for the Examination was 19, of whom 11 passed, 7 failed and 1 was absent. Of the successful candidates, 4 were placed in the First Division and 7 in the Second.

The Examination has been conducted in accordance with the instructions contained in our letters of appointment.

We are of opinion that the paper on Details of Construction was of so inordinate length that the questions could not be properly answered within the time allotted. We accordingly suggest that the special attention of paper-setters be drawn to the rules on this subject.

We have &c.,

(Sd). C. LITTLE.
" PAUL BRÜHL.
" C. W. PEAKE.
" WM. TATE.
" P. C. RAY.
" S. K. BOSE.
" AMARNATH DAS."

The Registrar stated that, in anticipation of the orders of the Syndicate, he had published the names of the successful candidates in the *Gazette*.

RESOLVED—

That the Report be adopted and that the action of the Registrar be approved.

RESOLVED ALSO—

That in future the attention of gentlemen appointed to set papers for the B. E. Examination be specially directed to the rule that the questions set should be such as could reasonably be expected to be answered within the time allotted.

The following are the names of the successful candidates :—

FIRST DIVISION.

(In order of merit.)

Sengupta, Lalit Chandra	...	Civil Engineering College,	Sibpur.
Gangopadhyay, Bipinbihari	...	Ditto	ditto.
Ghosh, Kshitinath	...	Ditto	ditto.
Mukhopadhyay, Jitendranath	...	Ditto	ditto.

SECOND DIVISION.

(In order of merit.)

Chattopadhyay.Surendramohan	...	Civil Engineering College,	Sibpur.
Haldar, B. R.	...	Ditto	ditto.
Sen, Jagadischandra	...	Ditto	ditto.
Chattopadhyay, Hiralal	...	Ditto	ditto.
Bhattacharyya, Purnachandra	...	Ditto	ditto.
Dasgupta Jitendranath	...	Ditto	ditto.
Datta, Bhupendranath	...	Ditto	ditto.

***

1178. Read an application from Syed Mohamad, B.A. (Allahabad), requesting permission to appear at the M.A. Examination of this University as a non-collegiate student.

ORDERED—

That the application be refused.

1179. Read an application from Benarasi Prasad, who after passing the Entrance Examination of the Allahabad University, has been serving as a teacher in Government Schools in Bengal, requesting permission to appear at the Intermediate Examination in 1909 as a teacher.

ORDERED—

That the Syndicate recommend to the Senate that the applicant be admitted to the Intermediate Examination in Arts in 1909 as a teacher.

1180. The Registrar stated that it was necessary to appoint gentlemen to set papers in Sanskrit Group E, for the ensuing M. A. Examination and also to appoint a gentleman to set a paper on Asoka Inscriptions.

RESOLVED—

That Dr. G. Thibaut and Acharyya Satyabrata Samasrami be appointed to set papers in Sanskrit Group E, and Professor Venis be requested to set a paper on Asoka Inscriptions for the ensuing M.A. Examination.

1181. The Registrar requested the Syndicate to take steps for the appointment of Examiners to look over the answer papers of candidates at the ensuing M. A. Examination.

RESOLVED —

That the following gentlemen be appointed to look over the answer papers of candidates at the ensuing M. A. Examination :—

***

***

Chemistry.

P. Mukharji, Esq., B.Sc., M.R.A.S.
Dr. P. C. Ray, D.Sc.
E. R. Watson, Esq., M.A., B.Sc.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

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1182. Read a letter from the Offg. Secretary to the Government of India, in the Home Department, conveying the sanction of Government to the affiliation of the General Assembly's Institution to this University up to the M.A. standard in English, compulsory subjects and Group A, and in Pure Mathematics.

ORDERED—

To be recorded.

1183. Read a letter from the Offg. Secretary to the Government of India, in the Home Department, conveying the sanction of Government to the affiliation of the Duff College to this University up to the M.A. standard in Mental and Moral Philosophy, the subjects for papers IV, V, VI and VII being Psychology and Philosophy of Religion

ORDERED—

To be recorded.

1184. Read a letter from the Director of Public Instruction, Bengal, requesting that the Syndicate may be moved to affiliate the Krishnagar College with effect from the present session up to the Intermediate standard in Science in the subjects of English, Vernacular Composition, Chemistry, Physics and Mathematics and also to the B.Sc. standard in Chemistry, Physics and Mathematics.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SYNDICATE

FOR THE YEAR 1907.

No. 23.

THE 14TH SEPTEMBER, 1907.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

A. EARLE, Esq., C.S.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
N. N. GHOSE, Esq., F.R.S.L.
G. W. KÜCHLER, Esq., M.A.
BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
REV. A. TOMORY, M.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
HARINATH DE, Esq., M.A.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

1293. The Minutes of the Syndicate, dated the 7th September, 1907, were read and confirmed.

1294. Read the Proceedings of the Transfer Committee, dated the 13th September, 1907.

RESOLVED—

That the Proceedings be confirmed.

1295. Read the Proceedings of the Mahomedan Hostel Conference, dated the 7th September, 1907.

RESOLVED—

That the Proceedings be confirmed.

permission to teach any two of the following subjects in addition to the compulsory subjects :—

(i) Psychology, (ii) Logic, (iii) Ethics and Social Philosophy, (iv) Philosophy of Religion, (v) Some special branch of Indian Philosophy.

ORDERED—

To be recorded.

1302. Read the following report from Dr. P. C. Ray and the Rev. J. Watt, M.A., on an application for the affiliation of the Ripon College in Science up to the Intermediate standard :—

REPORT.

The proprietor of the Ripon College has applied for affiliation in Physics and Chemistry up to the standard of the Intermediate Examination in Science. We inspected the College on July 27th and found that while the rooms set apart for science had been cleared and apparatus ordered from London, the other preparations had not been begun. In the circumstances our "inspection" consisted chiefly in advising with the Principal how the available space could be best used. The practical outcome of this conversation is seen in a letter from us to the Principal and the plans of the rooms set apart for science teaching and of the fittings for these rooms. The preparation of these plans by one of the few available firms in Calcutta, which understand such work, took time and they were sent to us only on September 7th.

The appendix to this report, to which frequent reference must be made consists of—

1.	Letter from Inspector to the Principal, Ripon College.	1
2.	Three letters in reply.	3
3.	Plans of rooms set apart for science teaching.	2
4.	Plans of fittings, lecture-table, benches, &c.	2
5.	Lists of apparatus (A and B) already in the College	2
6.	Lists of apparatus being ordered from London.	4
7.	List of books on Mathematics and Science in Library	

The rooms offered for teaching Physics and Chemistry are large and admirably lighted each on three sides. With a fourth room upstairs which will be available for any extension in science work they form a detached block in the rear of the main College building. These rooms are of nearly the same size and although rather low in the roof are so well supplied with windows as to be very easily ventilated. These windows require to be glazed, at present they are fitted only with jhilmils.

The lecture room 32 ft. by 27 ft. is quite large enough to contain all the students that can be taught in the laboratories. There is a

small room immediately behind the lecturer in which apparatus may be stored in cupboards or almirahs and where it may be set up preparatory to its being placed on the lecture table. A very elaborate plan of a lecture table is shown in No. 4, more elaborate than necessary for we saw no arrangement for a large supply of oxygen and hydrogen on the premises such as the fittings of the table suggest as both physics and chemistry have to be taught in this room, the top space and drawer space of the table are none too great. A small gallery is to be fitted at the back of the room.

The chemical laboratory on the ground floor is ft. 35·9 by ft. 26·9 and the benches proposed and shown in plan 4 will accommodate 31 working at one time. The drawers and cupboards shown in the plan are too small, they ought to be at least eighteen inches wide The hoods on the benches and the stink cupboards seem to be sufficient, but their efficiency depends entirely on the sort of fan which is to be erected to exhaust them.

The physics laboratory is ft. 33·9 by ft. 26·9 and the table accommodation on the plan is sufficient for about 30. A mistake has been made in setting four students to a table 6 ft. by 3 ft. A balance room lies between the two laboratories and two store rooms as shown on the plan, one for each laboratory, will contain the apparatus necessary for the practical work.

The apparatus shown to us was of the sort found in most Calcutta Colleges, intended for demonstration purposes only. We could only wonder where the cupboards were, in which it is usually kept. A serious problem has to be solved by the College authorities how the new apparatus and the old is to be stored so as to be visible to the students and convenient for the teacher. The present almirah accommodation is of the scantiest. The Principal at once accepted our suggestion that in the lists of apparatus ordered from London several expensive pieces which could hardly be put into beginners' hands should be struck out and duplicates of the simplest apparatus got instead. In practice it will be found that the number of duplicates is still too small. For the easy working of a class of 30 in the laboratory the number of duplicates mentioned in the appendix to the University Regulations should be doubled.

The list of books shown in 7 is not very large but most of them in Physics and Chemistry are up to date. The accommodation for students reading in their spare time is insufficient. A verandah in front of the very small library can hardly be reckoned satisfactory. The library seems far too small for such a College.

The College has on its staff the following gentlemen for teaching the purely scientific subjects of Mathematics, Physics and Chemistry :—

1. Babu Ramendrasundar Trivedi, M.A.,

   Gold medallist in Physical Science, 1887,
   Premchand Roychand Student (Phys. and Chem.)
   1888, Professor of Physics and Chemistry.

2. Babu Haranchandra Banerjee, M.A.,
First class M.A. in Mathematics,
Silver medallist, 1889,
Prof. of Mathematics.

3. Babu Kshetramohan Banerjee, M.A.,
B.A. First class Hon. in Mathematics, 1886,
M.A. in Mathematics, 1887,
Prof. of Mathematics.

4. Babu Gangadhar Mukerjee, M.A.,
Physics C. Course, 1895,
Prof. of Physics and Chemistry.

5. In addition to these a demonstrator—an M.A. in Physical Science will be appointed.

In accordance with recommendations made by the University in previous cases the gentlemen mentioned above as Professors of Physics and Chemistry should be instructed to take up a single subject each.

Taking into account all the facts of the case—the staff employed or to be employed in teaching Science, the accommodation offered for theoretical and practical teaching, and the promises definitely made that these rooms will be fitted according to the letters and plans submitted, we recommend that the Ripon College be affiliated up to the Intermediate standard in Science.

(Sd.) JOHN WATT.
,, P. C. RAY.

From the Rev. J. Watt, M.A., to the Principal, Ripon College, dated the 29th July, 1907.

While Dr. Ray and I were with you on the 27th, no note was kept of the suggestions made and accepted and perhaps it would be better that some sort of list of them should be written down. As most of them were made by myself I may run over them.

1. Dr. Ray suggested that the windows of the rooms both downstairs and up should be fitted with glass doors. This is essential in the two rooms to be used as laboratories and I should think on the north and east sides of the lecture room.

2. As the lecture room is to be used for both Physics and Chemistry, the table should be specially large, fitted with sink and water connections and gas. A small tank on the roof would be required as a water supply. Whether placed on the north or west side of the room the table would not be visible to students in the back benches unless these be so far raised. The four or five back benches should rise in a small gallery.

3. A fume chamber will be necessary in this room. If the lecture table is placed on the north side of the room, a large fume chamber might be fitted towards the north-east corner.

4. I do not like the arrangement of the chemical working benches in the laboratory, as shown in the plan, but as the room is so well lighted it may be possible to work the plan. Can you get drawings of the benches showing what you are prepared to put in? The three sink cupboards marked are certainly insufficient. There would require to be at least six in the room. Can you get the Bengal Pharmaceutical and Chemical Co. or some other firm to give you plans of benches with hoods and a ventilating system for such? The gases must be removed either by such a system through hoods on the students' benches or through a large number of fume chambers round the walls. A plan of chemical laboratory fittings would show sink and water arrangements, gas, hoods or fume chambers, and drawers and cupboards for individual students. There would require to be several fume chambers in addition to the hoods.

5. If a day-pressure of gas is not available, a gas-holder or gas-compressor will have to be installed.

6. The small rooms on the south-east and south-west corners of the block that are to be used as storage rooms for apparatus should be shown in the plan. I return it to you for these changes.

7. A larger number of tables than that shown in the plan will be required in the Physics laboratory.

8. Two porcelain sinks with water supply will be required in the Physics laboratory.

9. The apparatus at present in use could hardly be stored in any fashion in the almirahs and cupboards now available. The new apparatus shown in the indents on London will require a very large amount of space so as to be easily available. It would be well in making new arrangements to secure that all or most of the apparatus should be seen frequently by the students. This can be secured only by liberal almirah space for the separate articles.

10. Plans of *all* the rooms to be used for science down and upstairs should be submitted and copies of the lists of new apparatus ordered from London.

11. Two points were not discussed on Saturday—the routine proposed for the classes and the men who are to teach, and the condition of the scientific part of the library. Could you let us have a routine for Science and Mathematics in the two classes and the men who would teach these subjects? As for the library I think I ought to call again and see it.

No. 4 I consider the most important item in this list. The plans of working benches and ventilating system are essential.

From the Principal, Ripon College, to the Rev. J. Watt, M.A., dated the 2nd August, 1907.

Very many thanks for your kind suggestions contained in your letter of the 30th. We will try to carry out the suggestions. I have asked the Bengal Chemical and Pharmaceutical Works to prepare new plans in accordance with your instructions and I hope I shall

be in a position to send you the plans with the revised lists of apparatus shortly. The routine of studies with names and qualifications of the gentlemen teaching the different subjects together with a list of scientific and Mathematical books in the library will be sent at the same time. That I hope may spare you the trouble of calling again.

From the Principal, Ripon College, to the Rev. J. Watt, M.A., dated the 5th September, 1907.

I beg to send you today the plans for lecture room and physical and chemical laboratories as prepared by the Bengal Chemical and Pharmaceutical Works in accordance with your instructions. I also send under separate covers lists of Scientific Books in the Library of the College, and lists of Physical and Chemical apparatus that the College already possesses and that the College has recently ordered for. Lists of apparatus in possession of the College are marked A and B. The other lists are unmarked. In this connection I have the pleasure to state that the supply of chemical apparatus from Messrs. John Griffin & Co. has already arrived and we are in daily expectation of obtaining delivery of the goods through the Customs House.

As regards the Physical apparatus I have revised the lists as was desired by you and substituted a larger number of sets of cheaper articles in place of the more costly ones. As we had sent orders to England according to the old lists, we have had to go into fresh correspondence with the firms of suppliers and this has caused a good deal of delay in sending you the revised lists. I trust that the plans of laboratories and lists of apparatus as finally revised in accordance with your instructions will receive your approval. Kindly appoint an early date for visiting the College, in consultation with Dr. Ray, if you think a second visit to be necessary, and I shall be extremely obliged for a timely intimation of the same. Any time after 2 P.M. will suit us.

From the Principal, Ripon College, to the Rev. J. Watt, M.A., dated the 11th September, 1907.

I give you the assurance that in arranging the routine of work for the Intermediate science classes, I will set apart at least three hours a week for lecture work and three hours a week for laboratory work in each of the subjects Physics and Chemistry. Additional hours will be devoted for either kind of work if occasion requires.

RESOLVED—

That the Syndicate recommend to the Senate that the Ripon College be affiliated to the University in

Science up to the Intermediate standard in Physics and Chemistry with effect from the date of application ; and that the authorities of the Ripon College be informed that they are expected to appoint as Demonstrator in Chemistry an M.A. in that subject.

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Minutes of the Faculty of Science

FOR THE YEAR 1907.

No. 1.

THE 14TH DECEMBER, 1907.

Present:

G. W. KÜCHLER, Esq., M.A., *Dean, in the Chair.*

DR. P. K. RAY, D.Sc.
C. LITTLE, Esq., M.A.
W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
DR. C. E. CULLIS, M.A., Ph.D.
BABU BRAJENDRANATH SIL, M.A.
V. H. JACKSON, Esq., M.A.
G. C. BOSE, Esq., M.A., F.C.S.
H. E. STAPLETON, Esq., B.A., B.Sc.
W. H. EVERETT, Esq., B.A., B.E., M.I.E.E.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
DR. P. C. RAY, D.Sc.
MAJOR L. ROGERS, M.D., F.R.C.S., I.M.S.
DR. N. ANNANDALE, B.A., D.Sc.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

1529. The Faculty met to elect two Representatives on the Syndicate for the year 1908, one of whom was to be either the Head of or a Professor in a College affiliated to the University.

The following are the names of members proposed for election :—

Name.	*Proposed by.*
1. Professor C. W. Peake, M.A., Professor of Physics, Presidency College.	Professor J. A. Cunningham, B.A.

Names.	*Proposed by*
2. Professor S. C. Mahalanabis, B.Sc., F.R.S.E., Professor of Physiology, Presidency College, Calcutta.	G. W. Küchler, Esq., M.A.
3. Principal G. C. Bose, M.A., F.C.S., Principal, Bangabasi College.	Rai Chunilal Basu, Bahadur, M.B., F.C.S. P. Mukharjee, Esq., B.Sc., M.R.A.S.

The election of a member who was either the Head of or a Professor in an affiliated College was first taken up. Professor Peake, with the permission of the meeting, withdrew his name from the election. A ballot was then taken with regard to the other two members whose names were on the list when the following votes were recorded :—

Principal G. C. Bose	... 8 votes
Professor Mahalanabis	... 11 „

The Dean thereupon declared that Professor Mahalanabis was duly elected as one of the Representatives of the Faculty on the Syndicate for the year 1908.

The Faculty then proceeded to the election of the other Representative on the Syndicate and a ballot being taken it was found that 9 votes for Principal G. C. Bose while 10 gave their votes in favour of Professor C. W. Peake.

Professor C. W. Peake was accordingly declared duly elected as the second Representative of the Faculty on the Syndicate for the year 1908.

(Confirmed.)

G. W. KÜCHLER,
Dean.

G. THIBAUT,
Registrar.

University of Calcutta.

MINUTES

FOR THE YEAR

1908.

PART I.

Calcutta:
PRINTED AT THE HARE PRESS

MINUTES OF THE SYNDICATE

FOR THE YEAR 1908.

No. 1.

THE 4TH JANUARY, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E.,
Vice-Chancellor, in the Chair.

A. EARLE, Esq., C.S.	THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.	H. R. JAMES, Esq., M.A.
N. N. GHOSE, Esq., F.R.S.L.	REV. A. TOMORY, M.A.
G. W. KÜCHLER, Esq., M.A.	S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
B. HRATON, Esq.	
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.	HARINATH DE, Esq., M.A., M.R.A.S.
BABU HERAMBACHANDRA MAITRA, M.A.	J. A. CUNNINGHAM, Esq., B.A., C. W. PEAKE, Esq., M.A.

4. The Minutes of the Syndicate, dated the 21st December, 1907, were read and confirmed.

5. Read the Proceedings of the Students' Residence Committee, dated the 20th December, 1907.

RESOLVED—

That the Proceedings be confirmed.

6. Read the following :—

Proceedings of the Board of Studies in English, dated the 16th November, 1907.

CHEMISTRY.

W. Tate, Esq., A.R.C.S., F.C.S.
E. R. Watson, Esq., B.SC., M.A., F.C.S.

MATERIALS OF CONSTRUCTION.

T. H. Richardson, Esq., B.A.I., M.I.C.E.
Babu Saradasundar Pal, B.E.

GEODESY.

T. H. Richardson, Esq., B.A.I., M.I.C.E.
Amarnath Das, Esq., B.E.

14. The Syndicate then proceeded to consider the constitution of the Faculties for the year 1908-1909.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties for the year 1908-1909 be constituted as follows :—

FACULTY OF ARTS.

The Most Rev. R. S. Copleston, M.A., D.D., Lord Bishop of Calcutta.
A. Earle, Esq., I.C.S., Director of Public Instruction, Bengal.
J. G. Covernton, Esq., M.A., Director of Public Instruction, Burma.
H. Sharp, Esq., M.A., Director of Public Instruction, Eastern Bengal and Assam.
The Rev. Father E. Lafont, S.J., C.I.E., M.I.E.E.
Dr. P. K. Ray, D.SC.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L.
Babu Gaurisankar De, M.A., B.L.
H. M. Percival, Esq , M.A.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
N. N. Ghose, Esq., F.R.S.L.
Babu Chandranath Basu, M.A., R.L.
Mahamahopadhyay Haraprasad Sastri, M.A.
Shams-ul-Ulama Ahmad.
G. W. Kuchler, Esq., M.A.
C. Little, Esq., M.A.
The Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, M.A., D.L., F.R.A.S., F.R.S.E.
Babu Bipinbihari Cupta, M.a.
Babu Mahendranath Ray, M.A , B.L.

Babu Herambachandra Maitra, M.A.
Babu Ramendrasundar Trivedi, M.A.
M. E. duS. Prothero, Esq., M.A.
The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
Rev. E. M. Wheeler, M.A.
H. Stephen, Esq., M.A.
Dr. C. E. Cullis, M.A., Ph.D.
Dr. E. D. Ross, Ph.D.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
Babu Brajendranath Sil, M.A.
H. R. James, Esq., M.A.
C. Russell, Esq., M.A.
Rev. R. Gee, M.A.
Rev. A. Tomory, M.A.
Babu Bhagabati Sahay, M.A., B.L.
Babu Surendranath Banerjee, B.A.
J. N. Dasgupta, Esq., B.A.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
Rai Troyluckonath Banerjee, Bahadur.
Khan Bahabur Maulavi Muhammad Yusooff, B.L.
Rev. Father A. Neut, S.J.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A.
Shams-ul-Ulama Mirza Ashruf Ali.
Babu Nrisinhachandra Mukerjee, M.A., B.L.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D SC.
Dr. T. Bloch, Ph.D.
Manmohan Ghose, Esq., B A.
C. H. Browning, Esq., M.A.
Mahamahopadhyay Satischandra Acharyya, M.A.
Rev. R. F. Pearce, M.A.
W. W. Hornell, Esq., B.A.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.
The Honb'le Mr. F. A. Slacke, B.A., C.S.I.
Dr. G. Thibaut, C.I.E., Ph.D.
Babu Binayendranath Sen, M.A.
Babu Harihar Prasad Singh, B.L.
Lt.-Col. D. C. Phillott, I.A.

FACULTY OF SCIENCE.

G. W Küchler, Esq., M.A.
C. Little, Esq., M.A.
Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasunder Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. C. E. Cullis, M.A., Ph.D.
Babu Brajendranath Sil, M.A.

V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukharji, Esq., B.SC., M.R.A.S.
H. E. Stapleton, Esq., B A., B.SC.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.SC., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.C.S., F.O.S.
T. H. Halland, Esq., F.R.S., F.G.S., A.R.C.S.
Dr. P. C. Ray, D.SC.
I. H. Burkill, Esq., M A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., M.R. C.P., I.M S.
Dr. N. Annandale, B.A., D.SC.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

★★★

MINUTES OF THE SYNDICATE

FOR THE YEAR 1908.

No. 3.

THE 18TH JANUARY, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

A. EARLE, Esq., C.S.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
G. W. KÜCHLER, Esq., M.A.
B. HEATON, Esq.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
H. R. JAMES, Esq., M.A.
REV. A. TOMORY, M.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
HARINATH DE, Esq., M.A.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

52. The Minutes of the Syndicate, dated the 4th and the 8th January, 1908, were read and confirmed.

53. Read the Minutes of the Faculty of Arts, dated the 4th January, 1908.

ORDERED—

To be recorded.

54 Read a letter from the Rev. E. C. Woodley, M.A., stating that he has resigned the Principalship of the

SECOND DIVISION—*concld.*

(*In order of merit*)—concld.

Das, Narayanpada	...	Ripon College.
Ghosh, Ajit	...	Ripon College.
,, Jatindranarayan	...	Ditto.
Sanyal, Bhabataran	...	Ditto.
Mitra, Dineschandra	...	City College.
Guha, Satyasaran	...	B. M. Institution, Barisal.
Chaliha, Kuladhar	...	Ripon College.
Dasgupta, Jatindrasankar	...	Ditto.
Sinha, Haridas	...	Metropolitan Institution.

105. On the results of the B. L. Examination the Ritchie Prize was awarded to Batukrishna Ghosh of the Metropolitan Institution.

106. Read the following Report of the Board of Examiners for the M.A. Examination, 1907:

From

THE BOARD OF EXAMINERS FOR THE M.A. EXAMINATION,

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Dated Calcutta, the 18th January, 1908.

SIR,

We have the honour to submit, for the approval of the Hon'ble the Vice-Chancellor and Syndicate, the results of the M.A. Examination.

The number of candidates registered for the M.A. Examination in English was 105, of whom 15 passed, 75 failed and 15 were absent. Of the successful candidates 3 were placed in the First Class, 6 in the Second and 6 in the Third.

The number of candidates registered in Sanskrit (A) was 11, of whom 7 passed, 3 failed and 1 was absent. Of the successful candidates, 3 were placed in the Second Class and 4 in the Third.

The number of candidates registered in Sanskrit (D) was 2, both of whom passed in the Second Class.

The number of candidates Registered in Sanskrit (E) was 1, who passed and was placed in the Third Class.

There was only 1 candidate in Pali who passed and was placed in the Third Class.

There was only 1 candidate in Latin who was absent.

There was only 1 candidate in Hebrew who was absent.

The number of candidates registered in Arabic was 2, both of whom passed in the Third Class.

The number of candidates registered in Persian was 6, of whom 5 passed, 1 failed. Of the successful candidates, 1 was placed in the First Class, 3 in the Second and 1 in the Third.

The number of candidates registered in History was 24, of whom 9 passed, 12 faild and 3 were absent. Of the successful candidates, 6 were placed in the Second Class and 3 in the Third.

The number of candidates registered in Mental and Moral Science was 54, of whom 11 passed, 40 failed and 3 were absent. Of the successful candidates, 6 were placed in the Second Class and 5 in the Third.

The number of candidates registered in Mathematics (A) was 14, of whom 8 passed 9 failed and 2 were absent Of the successful candidates, 1 was placed in the First Class, 1 ill the Second and 1 in the Third.

The number of candidates registered in Mathematics (B) was 13, of whom 5 passed, 6 failed and 2 were absent. Of the successful candidates, 1 was placed in the First Class, 1 in the Second and 3 in the Third.

The number of candidates registered in Natural and Physical Science (A), Chemistry, was 16, of whom 40 passed, 4 failed and 2 were absent. Of the successful candidates, 1 was placed in the First Class, 8 in the Second and 1 in the Third.

There was only 1 candidates in Natural and Physical Science (B), Physics, who passed in the First Class.

There were 11 candidates in Natural and Physical Science (D), Botany, all of whom passed. Of the successful candidates 5 were placed in the First Class, 4 in the Second and 2 in the Third.

There were 2 candidates in Natural and Physical Science (E) Geology, both of whom passed in the Third Class.

We beg to recommend the undermentioned successful candidates who were placed in the First Class, as eligible for the Government Scholarships tenable in England by natives of India and for appointment in the Provincial Civil Service of Government :—

ENGLISH.

Class I.

Maitra, Nikhilnath	...	Private Student.
Sen, Girischandra	...	Presidency College.
Basu Abinaschandra	...	Ditto.

PERSIAN.

Class I.

Fakbrul Hasan Kaderi	...	Patna College.

MATHEMATICS (A)

CLASS I.

Lala, Asutosh ... G. A. Institution.

MATHEMATICS (B)

CLASS I.

Das, Pulinbihari ... Private Student.

CHEMISTRY.

CLASS I.

Mukhopadhyay, Dhirendranath ... Presidency College.

PHYSICS (B)

CLASS I.

Ghosh, Panchanan ... Private Student.

BOTANY.

CLASS I.

Ghatak, Nisithanath ... Private Student.
Mukhopadhyay, Ahareschandra Prithwinath ... Presidency College.
... Ditto.
Bandyopadhyay, Surendrachandra ... Ditto.
Mitter, J. H. ... Private Student.

We have the honour to be,

SIR,

Your most obedient servants,

(Sd.) ASUTOSH MOOKERJEE,
Chairman.

„ P. K. RAY.
„ HENRY STEPHEN.
„ H. M. PERCIVAL.
„ R. F. AZOO.
„ HARINATH DE.
„ C. E. CULLIS.
„ E. R. WATSON.
„ P. C. RAY.
„ S. C. MAHALANOBIS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1908.

No. 2.

THE 25TH JANUARY, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

A. EARLE, ESQ., I.C.S.
REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.
DR. P. K. RAY, B.Sc.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L.,
BABU GAURISANKAR DE, M.A., B.L.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, ESQ., F.R.S.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
G. W. KUCHLER, ESQ., M.A.
BABU BIPINBIHARI GUPTA, M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAHLASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SIRCAR, M.A., M.D.
SURGEON-GENERAL G. BOMFORD, C.I.E., M.D., I.M.S.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARAI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

H. Stephen, Esq., M.A.
B. Heaton, Esq.
Lt. Col. G.F.A. Harris, M.D., F.R.C.P., I.M.S.
Dr. Kedarnath Das, M.D.
Dr. Upendranath Brahmachari, M.A., M.D.
Dr. C. E. Cullis, M. A., Ph.D.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
Babu Brajendranath Sil, M.A.
H. R. James, Esq., M.A.
C. Russell, Esq., M.A.
V. H. Jackson, Esq., M.A.
Rev. A. Tomory, M.A.
G. C. Bose, Esq., M.A., F.C.S.
Babu Bhagabati Sahay, M.A., B.L.
P. B. Mukharji, Esq., B. Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
J. N. Dasgupta, Esq., B.A.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
The Hon'ble Mr. Justice B. G. Geidt.
P. Bruhl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.
The Hon'ble Mr. W. Inglis.
Rai Trailokyanath Banerjee Bahadur.
The Hon'ble Mr. Justice Syed Shurfuddin.
Maulavi Muhammad Yusuf, Khan Bahadur, B.L.
Rev. Father A. Neut, S.J.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A.
Shams-ul-Ulama Mirza Ashruf Ali.
Lt.-Col. C. B. Lukis, M.D., F.R.C.S., I.M.S.
Babu Nrisinhachandra Mukerjee, M.A., B.L.
The Hon'ble Mr. Justice Lalmohan Das, M.A., B.L.
Col. R. Macrae, M.B., I.M.S.
Rai Krishnachandra Banerji, Bahadur, B.A.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D.Sc.
I. H. Burkill, Esq., M.A., F.L.S.
Mahamahopadhyay Satischandra Acharyya, Vidyabhushan, M.A.,
Dr. Hemchandra Sen, M.D.
Rev. R. F. Pearce, M.A.
Major L. Rogers, M.D., F.R.C.S., I.M.S.
Dr. N. Annandale, B.A., D.Sc.
W. W. Hornell, Esq., B.A.
J. A. Cunningham, Esq., B.A.,
C. W. Peake, Esq., M.A.
The Hon'ble Mr. F. A. Slacke, B.A., C.I.E.
Dr. G. Thibaut, Ph.D., C.I.E.

Babu Binayendranath Sen, M.A.	Babu Harihar Prasad Singh, B.L.
	Lt.-Col. D. C. Phillott, I.A.
Lt.-Col. F. J. Drury, M.B., I.M.S.	Lt.-Col. F. P. Maynard, M B., I.M.S.

116. The first item of business before the meeting was the election of four Representatives on the Syndicate for the year 1908-1909, of whom two at least had to be either Heads of or Professors in Colleges affiliated to the University.

The following were the names of percons proposed for election: –

	Name.	*Proposed by—*
1.	Rev. J. Lamb, M.A., B.D., Offg. Principal, General Assembly's Institution.	Rev. A. Tomory, M.A.,
2.	J. N. Dasgupta, Esqr., B.A. (Oxon.), Offg. Principal, Hughli College.	Babu Nrisinhachandra Mukerjee, M.A., B.L.
3.	Professor J. A. Cunningham, B.A.	Dr. P. C. Ray, D. Sc., F.C.S.
4.	Principal Herambachandra Maitra, M.A.	Professor Binayendranath Sen, M.A.
5.	Harinath De, Esqr., M.A., M.R.A.S.	Dr. T. Bloch.
6.	Dr. Kodarnath Das, M.D.	Dr. Nilratan Sirear, M.A., M.D.

The Senate first proceeded to elect two Representatives from among the following gentlemen who were either Heads of or Professors in Colleges affiliated to the University:—

Rev. J. Lamb, M.A., B.D.
Mr. J. N. Dasgupta, B.A.,
Mr. J. A. Cunningham, B.A.
Babu Herambachandra Maitra, M.A.

On a ballot being taken the following votes were recorded:—

Mr. Cunningham	... 40	Votes.
Mr. Dasgupta	... 36	»
Babu Herambachandra Maitra	... 38	»
Rev. J. Lamb	... 26	»

under these rules, he is not entitled to retain, or so long as he leaves unpaid any fine which may have been imposed on him under Rules 3, 5 and 7.

5. (*a*) Books which are valuable on account of their rarity or which belong to a series and which, being out of print, it may be difficult or impossible to replace if lost, or books required for constant reference, shall not be removed from the Library.

(*b*) A list of the works excluded from removal under this Rule shall be drawn up by the Executive Committee, and will be subject to revision and extension from time to time.

6. (*a*) The Librarian shall report to the Executive Committee all cases in which books have been mutilated, disfigured by writing on the margin or otherwise injured while in the possession of readers.

(*b*) Any person guilty of such an offence shall be required to replace the injured by an uninjured copy of the book, and shall be liable to the cost of its proper binding and other charges. Further he shall be fined and suspended from the privileges of the Library at the discretion of the General Committee.

7. (*a*) A general inspection of the Library and of the record of books, issued and returned, shall be made annually in the first week of April by the Executive Committee, or by one or more members of the Committee deputed by them for that purpose.

(*b*) During this period of inspection the Library shall be closed, and all books whatever and by whomsoever borrowed shall be returned to the Library by the 31st March of each year.

(*c*) Any person who fails to return, in accordance with this Rule, all books borrowed by him shall be subject to a fine of not less than two rupees for each volume retained; and if such volume is not returned before the expiration of one week after the last day of inspection, a further fine of an equal amount shall be imposed for each volume for each additional week until that volume is returned or until a copy of the same edition and of equal value is placed in the Library in its stead, and all expenses connected therewith paid by the borrower.

8. The Library shall be closed on Sundays and all public holidays and on all days for holding public Examinations. Subject to the exception under Rule 7, it shall be opened on other days between the hours of 11 A.M. and 5 P.M

The motion was carried.

124. Mr. Cunningham moved that the Annual Report of the Syndicate for 1907, which had previously been circulated to the Members of the Senate, be received and adopted.

The motion was seconded by Mr. Tomory and carried.

125. The Senate then proceeded to distribute the Fellows among the different Faculties in accordance with Section 2, Chapter III of the Regulations. Separate voting

papers containing the names of persons proposed by the Syndicate for election to the different Faculties were supplied to the Members present. They had also before them lists of additional names proposed by the Members of the Senate for the Faculties of Arts and Science. Before proceeding to the ballot, the Vice-Chancellor requested the Members to score through such names on the Voting Papers as they did not wish to vote for, and, in the cases of the Faculties of Arts and Science, to add to the Voting Papers such name or names from the additional lists as they intended to give their votes to.

The names proposed by the Syndicate and the additional names proposed by the Members of the Senate were as follows :—

FACULTY OF ARTS.

Names proposed by the Syndicate.

The Most Rev. R. S. Copleston, M.A., D.D., Lord Bishop of Calcutta.
A. Earle, Esq., I.C.S., Director of Public Instruction, Bengal.
J. G. Covernton, Esq., M.A., Director of Public Instruction, Burma.
H. Sharp., Esq., M.A., Director of Public Instruction, Eastern Bengal and Assam.
The Rev. Father E. Lafont, S.J., C.I.E., M.I.E.E.
Dr. P. K. Ray, D.Sc.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L.
Babu Gaurisankar De, M.A., B.L.
H. M. Percival, Esq., M.A.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
N. N. Ghose, Esq., F.R.S.I.
Babu Chandranath Basu, M.A., B.L.
Mahamahopadhyay Haraprasad Sastri, M.A.
Shams-ul-Ulama Ahmad.
G. W. Küchler, Esq., M.A.
C. Little, Esq., M.A.
The Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, M.A., D.L., F.R.A.S., F.R.S.E.
Babu Bipinbihari Gupta, M.A.
Babu Mahendranath Ray, M.A., B.L.
Babu Herambachandra Maitra, M.A.
Babu Ramendrasundar Triyedi, M.A.
M. E. duS. Prothero, Esq., M.A.
The Hon'ble Babu Dehaprasad Sarbadhikari, M.A., B.L.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
Rev. E. M. Wheeler, M.A.
H. Stephen, Esq., M.A.

Dr. C. E. Cullis, M.A., Ph.D.
Dr. E. D. Ross, Ph.D.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
Babu Brajendranath Sil, M.A.
H. R. James, Esq., M.A.
C. Russell, Esq., M.A.
Rev. R. Gee, M.A.
Rev. A. Tomory, M.A.
Babu Bhagabati Sahay, M.A., B.L.
Babu Surendranath Banerjee, B.A.
J. N. Dasgupta, Esq., B.A.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Rai Trailokyanath Banerjee, Bahadur.
Khan Bahadur Maulavi Muhammed Yusuff, B.L.
Rev. Father A. Neut, S.J.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A.
Shams-ul-Ulama Mirza Ashruf Ali.
Babu Nrisinhachandra Mukerje, M.A., B.L.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D.Sc.
Dr. T. Bloch, Ph.D.
Manmohan Ghose, Esq., B.A.
C. H. Browning, Esq., M.A.
Mahamahopadhyay Satischandra Acharyya, M.A.
Rev. R. F. Pearce, M.A.
W. W. Hornell, Esq., B.A.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.
The Hon'ble Mr. F. A. Slacke, B.A., C.S.I.
Dr. G. Thibaut, C.I.E., Ph.D.
Babu Binayendranath Sen, M.A.
Babu Harihar Prasad Singh, B.L.
Lt.-Col. D. C. Phillott, I.A.

Additional names for the Faculty of Arts proposed by the Members of the Senate.

	Names.	*Proposed by—*
1.	I. H. Burkill, Esq., M.A., F.L.S.	H. E. Stapleton, Esq., B.A., B.Sc.
2.	Dr. N. Annandale, B.A., D.Sc.	H. E. Stapleton, Esq., B.A., B.Sc.
3.	The Hon'ble Dr. Rashbehary Ghose, C.I.E., M.A., D.L.	Babu Chandranath Basu, M.A., B.L. Dr. Nilratan Sarkar, M.A., M.D. J. N. Dasgupta, Esq., B.A.
4.	The Hon'ble Mr. Justice Saradacharan Mitra, M.A., B.L.	Babu Chandranath Basu, M.A., B.L. Dr. Nilratan Sarkar, M.A., M.D. W. H. Arden Wood, Esq., M.A. F.C.S., F.R.C.S.

	Names.	*Proposed by—*
5.	A. Chandhuri, Esq., M.A.	Dr. Nilratan Sarkar, M.A., M D. J. N. Dasgupta, Esq., B.A.
6.	S. P. Sinha, Esq.	Dr. Nilratan Sarkar, M.A., M D. J. N. Dasgupta, Esq., B.A.
7.	Babu Mahendranath Ray, M.A., B.L.	Maulavi Syed Shamsul Huda, M.A., B.L.
8.	H. E. Stapleton, Esq., B.A., B.SC.	C. H. Browning, Esq., M.A. W. H. Arden Wood, Esq., M.A., F.C.S., F.R.C.S.
9.	P. Mukharji, Esq., B.SC., M.R.A.S.	W. H. Arden Wood, Esq., M.A., F.C.S., F.R.C.S. J. N. Dasgupta, Esq., B.A.
10.	V. H. Jackson, Esq., M.A.	W. H. Arden Wood, Esq., M.A., F.C.S., F.R.C.S.
11.	G. C. Bose, Esq., M.A., F.C.S.	W. H. Arden Wood, Esq., M.A., F.C.S., F.R.C.S. J. N. Dasgupta, Esq., B.A.
12.	T. H. Holland, Esq., F.R.S., F.C S.	J. N. Dasgupta, Esq., B.A.
13.	The Hon'ble Mr. Justice Syed Shurfuddin	J. N. Dasgupta, Esq., B.A.
14.	The Hon'ble Mr. Justice Lalmohan Das, M.A., B.L.,	J. N. Dasgupta, Esq., B.A.

FACULTY OF SCIENCE.

Names proposed by the Syndicate.

G. W. Küchler, Esq., M.A.
C. Little, Esq., M.A.
Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.R., F.C.S.
Dr. C. E. Cullis, M.A., Ph.D.
Babu Brajendranath Sil, M.A.
V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M.A., F C.S.
P. B. Mukharji, Esq., B SC., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.SC.
W. H. Everett, Esq., B.A., B.E., M I.E.E.
S. C. Mahalanabis, Esq., B.SC., F.R S E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.E.S., F.G.S., A R.C.S.

Dr. P. C. Ray, D.Sc.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., M.R.C.P., I.M.S.
Dr. N. Annandale, B.A., D Sc.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.

Additional names for the Faculty of Science proposed by the Members of the Senate.

	Names.	*Proposed by—*
1.	Dr. Upendranath Brahmachari, M.A. M.D.	Dr. P. C. Ray, D.Sc.
2.	Dr. Suresprasad Sarbadhikari, M.D. M.A.	Dr. Nilratan Sarkar, M.A. M.D.
3.	Dr. Kedarnath Das, M.D.	Babu Binayendranath Sen, M.A.
4.	Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.	Dr. Kedarnath Das, M.D.
5.	W. H. Ardeu Wood, Esq. M.A., F.C.S., F.E.G.S.	V. H. Jackson, Esq., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SYNDICATE

FOR THE YEAR 1908.

No. 6.

THE 8TH FEBRUARY, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

A. EARLE, Esq., C.S.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
G. W. KÜCHLER, Esq., M.A.
B. HEATON, Esq.
BABU HEKAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
H. R. JAMES, Esq., M.A.
REV. A. TOMORY, M.A.
J. N. DASGUPTA, Esq., B.A.
HARINATH DE, Esq., M.A.
I.T.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
J. A. CUNNINGHAM, Esq., B.A.
C. W. PEAKE, Esq., M.A.

141. The Minutes of the Syndicate, dated the 18th January, the 1st and 4th February, 1908, were read and confirmed.

142. Read the Minutes of the Faculty of Arts, dated the 25th January and the 1st February, 1908.

ORDERED—

To be recorded.

143. Read the Minutes of the Faculty of Medicine, dated the 25th January and the 1st February, 1908.

151. Read the following Report of the Board of M. A. Examiners on the results of the Examination in Physics (C) :—

From

THE BOARD OF EXAMINERS FOR THE M. A. EXAMINATION, 1907,

To

THE REGISTRAR CALCUTTA UNIVERSITY.

The 25th January, 1908.

Sir,

In continuation of our report, dated the 18th January, 1908, we, the members of the Board of Examiners for the M. A. Examination in 1907, have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the Examination in Physics (C).

The number of candidates registered for the Examination was 21, of whom 12 passed, 7 failed and 2 were absent Of the successful candidates 2 were placed in the First Division, 4 in the Second and 6 in the Third.

We beg to recommend Jogeschandra Mukhopadhyay and Manindranath Kanjilal who have been placed in the First Division, for the Government Scholarship tenable in England by Natives of India, and we also beg to recommend them as fit and proper persons for nomination for appointment in the Executive Branch of the Provincial Civil Service.

We have etc.,

(Sd.) ASUTOSH MOOKERJEE.
Chairman.
" G. W. KÜCHLER.
" P. BRÜHL.
" P. MUKHARJI.
" P. C. RAY.
" J. A. CUNNINGHAM.
" B. N. SEAL.
" BAHUBALLABHA SHASTRI.
" NRISINHA CH. MUKERJEE.
" PROMATHANATH TARKABHUSHAN.

The Registrar stated that, in anticipation of the orders of the Syndicate, he had published the names of the successful candidates in the *Gazette*.

RESOLVED—

That the Report be adopted and that the action of the Registrar be approved.

The following are the names of the successful candidates :—

PHYSICS (C)

CLASS I.

(*In order of merit.*)

Mukhopadhyay, Jogeschandra	...	Presidency College.
Kanjilal, Manindranath	...	Ditto

CLASS II.

(*In order of merit.*)

De, Rajanikanta ...	...	Presidency College.
Sinha, Gurudas ...	...	Ditto
Mitra, Manindranath...	...	
Sen, Adinath ...	...	Dacca College.

CLASS III.

(*In order of merit.*)

Basu, Jitendranath ...	...	Presidency College.
Pal, Kanailal ...	...	Ditto
Das, Gopalchandra ...	...	Ditto
Das, Surendrachandra	...	Ditto
Kundu, Krishnachandra	...	Ditto
Ghosh, Bhupendrakumar	...	Ditto

152. Read a letter from C. Little, Esq., M.A., stating that he is unable to act as Head Examiner in Mathematics at the ensuing F. A. Examination, as he is about to proceed on leave.

ORDERED—

That Babu Bipinbihari Gupta, M.A., be appointed Head Examiner in Mathematics at the ensuing F. A. Examination, in place of Mr. C. Little, M.A., resigned.

The University of Calcutta & Acharya P C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1908.

No. 4.

THE 22ND FEBRUARY, 1908.

Present:

THE HON'BLE SIR ANDREW HENDERSON LEITH FRASER, M.A., LL.D., K.C.S.I., *Rector, in the Chair.*

A. EARLE, Esq., I.C.S.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L.,

BABU GAURISANKAR DE, M.A., B.L.

MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.

RAI DEBENDRANATH RAY, BAHADUR, L.M.S.

BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.

N. N. GHOSE, Esq., F.R.S.L.

G. W. KUCHLER, Esq., M.A.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.

BABU RAMENDRASUNDAR TRIVEDI, M.A.

THE HON'BLE BABU DEBAPRASAD SARBADHIKARAI, M.A., B.L.

BABU ADHARCHANDRA MUKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

DR. KEDARNATH DAS, M.D.

DR. E. D. ROSS, Ph.D.

G. C. BOSE, Esq., M.A., F.C.S.

J. N. DASGUPTA, Esq., B.A.

S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.

A. E. SILK, Esq., M. INST. C.E.

THE HON'BLE MR. W. INGLIS.

THE HON'BLE MR. JUSTICE SYED SHURFUDDIN.

MAULAVI MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.

RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.

HARINATH DE, Esq., M.A., M.R.A.S.

SHAMS-UL-ULAMA MIRZA ASHRUF ALI.

LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.

BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.

THE HON'BLE MR. JUSTICE LALMOHAN DAS, M.A., B.L.

COL. R. MACRAE, M.B., I.M.S.

REV. J. LAMB, M.A., B.D.

DR. P. C. RAY, D.Sc.

A. CASPERSZ, Esq., B.A.

MANMOHAN GHOSE, Esq., B.A.

MAHAMAHOPADHYAY SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A.

DR. HEMCHANDRA SEN, M.D.

REV. R. F. PEARCE, M.A.

MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.

W. W. HORNELL, Esq., B.A.

J. A. CUNNINGHAM, Esq., B.A.

C. W. PEAKE, Esq., M.A.

DR. G. THIBAU, C.I.E., Ph.D.

BABU BINAYENDRANATH SEN, M.A.

LT.-COL. D. C. PHILLOTT, I.A.

BABU HARIHAR PRASAD SINGH, B.L.

REV. J. MITCHELL, M.A.

288. The Registrar placed before the meeting the following statement of the qualifications of the Hon'ble Mr. Justice Asutosh Mookerjee, M.A., D.L., F.R.A.S., F.R.S.E :—

First in B.A. (1884), Harishchandra Prize; M.A. (Mathematics, Gold Medal) 1885, and (Physical Science) 1886. Premchand Roychand Studentship in Mathematics and Physics and Monat Medal, 1886. Tagore Law Gold Medallist, 1884, 1885, 1886. Doctor in Law, 1894. Tagore Professor of Law, 1897. Appointed a Member of the Senate, January, 1889; elected Member of the Syndicate, March, 1889; since then, with a short break of a few months, was a Member of the Syndicate till March, 1906, when appointed Vice-Chancellor; President of the Board of Studies in Mathematics, 1895-1907, and of the Board of Studies in Sanskrit, 1907. President of the Faculty of Law, 1906: Dean of the Faculty of Arts, 1908. Has conducted the highest Examinations in Mathematics and Law during the last twenty-one years (1887-1907); Representative of the University on the Bengal Legislative Council, 1899-1903 and of the Calcutta Corporation in the same Council, 1903-04. Additional Member of the Council of the Governor-General, 1903-1904, since when has

The University of Calcutta & Acharya P.C.Ray 1906-1944

been a Judge of the Calcutta High Court, Bengal. Member for Bengal on the Indian Universities Commission, 1902. President of the Committee appointed to frame the New University Regulations, 1906. Was lecturer in Mathematics and Mathematical Physics at the Indian Association for the Cultivation of Science, 1887-92. President of the Asiatic Society of Bengal, 1907-9. Fellow of the Royal Society of Edinburgh; Member of the Royal Irish Academy; Member of the Mathematical Societies of London, Edinburgh, Paris, Palermo and New York. Author of Mathematical papers, amongst which may be mentioned :—"On a Geometrical Theorem"; "Extensions of a Theorem of Salmon's"; "Mathematical Notes"; "Note on Elliptic Functions" referred to in Enneper's Elliptische Funktionen; "Differential Equation of a Trajectory" referred to in Forsyth's Differential Equations; "Monge's Differential Equation to all Conics"; "Memoir on Plane Analytical Geometry"; "General theorem on the Differential Equations of Trajectories"; "On Poisson's Integral"; "On the Differential Equations of all Parabolas"; "Geometric Interpretation of Monge's Differential Equation to all Conics," referred to in Edward's Differential Calculus; "Some Applications of Elliptic Functions to Problems of Mean Values" Parts I and II; "On Clebsch's Transformation of the Hydrokinetic Equations"; "On Stokes's Theorem and Hydrokinetic Circulation"; "On a Curve of Aberrancy"; "Remarks on Monge's Equation of all Conics."; "On some Definite Integrals"; "On an application of Differential Equations to the Theory of Plane Cubics"; "Researches on the number of normals common to two surfaces, two curves, or a curve and a surface"; "Application of Gauss's Theory of Curvature to the Evalution of Double Integrals."

Author of text-books on "Geometry of Conics" and "Arithmetic."

Author of "Law of Perpetnities."

His Honour the Rector said that he had much pleasure in moving that the recommendation of the Syndicate that the Honorary Degree of Doctor of Science be conferred on the Hon'ble Mr. Justice Asutosh Mookerjee, Vice-Chancellor of the University, be accepted by the

Senate

As to the qualifications of Mr. Justice Mookerjee for the degree, he referred the Members of the Senate to the statement before them.

The motion was seconded by Maulavi Muhammad Yusooff, Khan Bahadur, who remarked that the statement made no reference to one further eminent qualification possessed by the Hon'ble the Vice-Chancellor, viz., his knowledge of the Arabic language and Literature.

On being put to the vote the motion was carried unanimously.

(Attested.)

A. H. L. FRASER, *Rector.*

G. THIBAUT, *Registrar.*

(Confirmed.

ASUTOSH MOOKERJEE,
Vice-Chancellor.

MINUTES OF THE SENATE

FOR THE YEAR 1908.

No. 6.

THE 14TH MARCH, 1908.

JUBILEE CONVOCATION.

Present:

HIS EXCELLENCY THE RIGHT HON'BLE SIR GILBERT JOHN ELLIOT-MURRAY-KYNYNMOUND, EARL OF MINTO, P.C., G.C.M.G., *Chancellor, in the Chair.*

THE HON'BLE SIR ANDREW HENDERSON LEITH FRASER, K.C.S.I., M.A., LL.D., *Rector.*

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor.*

EX-OFFICIO FELLOWS.

THE HON'BLE SIR FRANCIS WILLIAM MACLEAN, Kt., K.C.I.E., K.C., M.A., *Chief Justice of Bengal.*

THE HON'BLE MR. HENRY ERLE RICHARDS, K.C.

THE HON'BLE SIR HARVEY ADAMSON, Kt., C.S.I.

A. EARLE, Esq., I.C.S., *Director of Public Instruction, Bengal.*

H. SHARP, Esq., M.A., *Director of Public Instruction, Eastern Bengal and Assam.*

HONORARY FELLOWS.

RAJA PYARI MOHAN MUKERJEE, C.S.I., M.A., B.L.

RAI RAJKUMAR SARBADHIKARI, BAHADUR, B.L.

BABU KSHETRANATH CHATTERJEE, M.I.C.E.

BABU ISANCHANDRA BOSE, M.A., B.L.

BABU PROTAPACHANDRA GHOSHA, B.A.

DR. RAMKRISHNA GOPAL BHANDARKAR, C.I.E., M.A., Ph. D., LL.D.

RAI BRAHMA MOHAN MALLIK, BAHADUR.

NAWAB A.F.M. ABDUR RAHMAN, KHAN BAHADUR.

BABU GONES CHUNDER CHUNDER.

MAULAVI SYED ASHRUFUDDIN AHMAD, KHAN BAHADUR.

BABU SYAMA CHARAN GANGULI, B.A.

SIR HERBERT HOPE RISLEY, K.C.I.E., C.S.I., I.C.S., B.A.

BABU UPENDRANATH MITRA, M.A., B.L.

ABUL HASSAN KHAN, Esq.

BABU RAMCHARAN MITRA, M.A., B.L.

J. S. ZEMIN, Esq.

MAULAVI ABDUL KARIM, B.A.

SHAMS-UL-ULAMA ATAUR RAHMAN.

RAI JATINDRANATH CHAUDHURI, M.A., B.L.

SAHEBZADA MUHAMMAD BUKHTYAR SHAH, C.I.E.

BABU DWARKANATH CHAKRABARTI, M.A., B.L.

BABU HARIPADA GHOSHAL, B.C.E.

RAI CHANDRANARAYAN SINGH, BAHADUR, M.A.

BABU JOGEN CHUNDER DUTT, M.A., B.L.

BABU JYOTIPRASAD SARBADHIKARI, M.A., B.L.

ORDINARY FELLOWS.

REV. FATHER E. LAFONT, S.J., C.I.E., M.I.E.E.

DR. P. K. RAY, D.Sc.

SIR GOOROO DASS BANERJEE, Kt., M.A., D.L.

THE HON'BLE DR. RASHBEHARY GHOSE, C.I.E., M.A., D.L.

BABU GAURISANKAR DE, M.A., B.L.

MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.

RAI DEBENDRANATH RAY, BAHADUR, L.M.S.

THE HON'BLE MR. JUSTICE SARADACHARAN MITRA, M.A., B.L.

N. N. GHOSE, Esq., F.R.S.L.

SHAMS-UL-ULAMA AHMAD.

BABU MAHENDRANATH RAY, M.A., B.L.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.

DR. NILRATAN SARKAR, M.A., M.D.

SURGEON-GENERAL G. BOMFORD, C.I.E., M.D., I.M.S.

BABU HERAMBACHANDRA MAITRA, M.A.

BABU RAMENDRASUNDAR TRIVEDI, M.A.

DR. SURESPRASAD SARBADHIKARI, M.D.

BABU ADHARCHANDRA MUKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

B. Heaton, Esq.
Dr. Kedarnath Das, M.D.
Dr. Upendranath Brahmachari, M.A., M.D.
Dr. C. E. Cullis, M.A., Ph.D.
Dr. E. D. Ross, Ph.D.
Babu Brajendranath Sil, M.A.
H. R. James, Esq., M.A.
Rev. R. Gee, M.A.
Rev. A. Tomory, M.A.
G. C. Bose, Esq., M.A., F.C.S.
A. Chaudhuri, Esq., M.A.
Babu Bhagarati Sahay, M.A., B.L.
Lt.-Col. F. J. Drury, M.B., I.M.S.
P. B. Mukharji, Esq., B. Sc., M.R.A.S.
J. N. Dasgupta, Esq., B.A.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
S. P. Sinha, Esq.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
T. H. Holland, Esq., F.R.S., F.G.S., A.R.C.S.
Rai Trailokyanath Banerjee, Bahadur.
The Hon'ble Mr. Justice Syed Surfuddin.
Maulavi Muhammad Yusooff Khan Bahadur, B.L.
Rev. Father A. Neut, S.J.
The Hon'ble Mr Justice R. F Rampini M.A., LL.D.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A.
Shams-ul-Ulama Mirza Ashruf Ali.
Babu Nrisinhachandra Mukerjee, M.A., B.L.
The Hon'ble Mr Justice Lalmohan Das, M.A., B.L.
Col. R. Macrae, M.B., I.M.S.
Rai Krishnachandra Banerji, Bahadur, B.A.
Rev. J. Lamb, M.A., B.D.
Dr. P. C. Ray, D.Sc.
A. Casperse, Esq., B.A.
Maulavi Syed Shamsul Huda, M.A., B.L.
Mahamahopadhyay Satischandra Acharyya, Vidyabhushan, M.A.
Dr. Hemchandra Sen, M.D.
Rev. R. F. Pearce, M.A.
W. W. Hornell Esq., B.A.
J. A. Cunningham, Esq., B.A.
C. W. Peake, Esq., M.A.
Dr. G. Thibaut, C.I.E., Ph.D.
Babu Binayendranath Sen, M.A.
Lt.-Col. D. C. Phillott, I.A.
Babu Harihar Prasad Singh, B.L.
Rev. J. Mitchell, M.A.
Babu Haranchandra Banerjee, M.A., B.L.

366. The following Delegates from the Universities of Madras, Bombay, the Panjab and Allahabad attended the Convocation on invitation:—

Madras University.

The Rev. J. Cooling, B.A.
The Rev. G. Pittindrigh. M.A.
Dewan Bahadur N. Subrahmanyam, B.A., B.L., Bar-at-Law.
Rao Bahadur N. Rangachariyar Aval, M.A.

Bombay University.

The Hon'ble Dr. R. G. Bhanderkar, C.I.E.
The Hon'ble Mr. Gopal Krishna Gokhale, C.I.E.

Panjab University.

The Hon'ble Mr. Justice P. C. Chatterjee, M.A., B.L.,R.B., C.I.E.
A. C. Woolner, Esq., M.A.
C. C. Caleb, Esq., M.B., M.S. (Dur.), M.R.C.S. (London).
Monohar Lall, Esq., M.A.

Allahabad University.

Mahamahopadhyay Pandit Adityaram Bhattacharyya, M.A.
A.Venis, Esqr.,M.A.
A. W. Ward, Esq., M.A.
W. A. J. Archbold, Esq., M.A., LL.B.

367. The Senate was convened for conferring the Degree of Doctor in the Faculties of Arts, Science and Law, *Honoris Causa*, in commemoration of the Jubilee of the University, as well as the ordinary degrees of the year.

368. The *Ex-officio* Fellows, the Honorary Fellows and the Ordinary Fellows of the University, who had previously signified their intention of attending the Convocation, assembled, in academic costume, in the Senate

House, College Square, at 2-30. P.M. At 2-40 P.M. they proceeded to the Entrance Hall and took their places in processional order according to the list previously supplied to them.

The Delegates from the other Indian Universities assembled in the Entrance Hall of the Senate House at 2-35 P.M. where they were received by the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar. They were then conducted by the Registrar to the seats which were specially reserved for them.

His Honour the Rector arrived at the Senate House at 2-40 P.M. when he was received by the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar. He then proceeded to the Registrar's room where he robed.

At 2-45 P.M. His Honour the Rector, the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar received His Excellency the Chancellor, at the foot of the staircase and conducted him to the Entrance Hall where he was received by the Fellows. He then proceeded to the Registrar's room where he robed.

369. A procession was then formed which entered the Hall in the following order :—

The Registrar.

Members of the Syndicate
arranged two and two in
order of Seniority.

His Excellency the Chancellor.

His Honour the Rector and the Hon'ble the Vice-Chancellor.

Ex-Officio Fellows
arranged two and two in
order of Seniority.

Honorary Fellows
arranged two and two in
order of Seniority.

Ordinary Fellows
arranged two and two in
order of Seniority.

Visitors stood up as the procession entered the Hall and remained standing until His Excellency the Chancellor had taken his seat on the dais.

370. The Hon'ble Sir A. H. L. Fraser, K.C.S.I., M.A., LL.D., Lieutenant-Governor of Bengal and Rector of the University and the Hon'ble Sir Francis William Maclean, Kt., K.C.I.E., K.C., M.A., Chief Justice of Bengal, Ex-Vice-Chancellor, occupied seats on the dais to the right of His Excellency the Chancellor, and to the left of the Hon'ble the Vice-Chancellor, respectively.

The *Ex-Officio* Fellows, Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ex-Vice-Chancellor, the Hon'ble Babu Debaprasad Sarbadhikari, M.A, B.L., Representative of the University on the Legislative Council of His Honour the Lieutenant-Governor of Bengal, and the Deans of the Faculties occupied seats on the dais. A seat was reserved on the dais for the Hon'ble Maharaja Sir Rameswar Singh, Bahadur, K.C.I.E., of Darbhanga, one of the Benefactors of the University.

Members of the Syndicate and recipients of Honorary Degrees occupied the front seats on the platforms to the right and left of the dais.

Honorary Fellows and the remaining Members of the Senate occupied seats on the platforms to the right and left of the dais in order of seniority according to the plan of seats previously supplied to them.

371. The Hon'ble the Vice-Chancellor, with the permission of His Excellency the Chancellor, having declared the Convocation opened, the following congratulatory addresses from the Universities of Madras, the Panjab and Allahabad were read :—

THE UNIVERSITY OF MADRAS

TO

THE UNIVERSITY OF CALCUTTA.

Greeting.

We, the Chancellor, Vice-Chancellor, and Fellows of the University of Madras, desire to offer to you our cordial congratulations on the occasion of the celebration of your Jubilee.

In comparison with the venerable and ancient foundations of Europe, the Universities of India are but in their infancy; yet already in the half century of their existence they have exerted a powerful influence in stimulating education, in quickening thought, in purifying the public service, and in fostering new ideals of life and duty.

In this work your University has borne a large and honourable part. To you has fallen the great task of controlling the higher Institutions of learning in the Metropolis of India and in the rich plains watered by the Ganges. Already there have gone forth from your Colleges distinguished men who have adorned the learned professions and who have filled with dignity and honour positions of high responsibility and who have enriched Bengali Literature with their writings and you bear on the rolls of your alumni men whose names are known far beyond the boundaries of their native land.

While offering you our congratulations on the results already accomplished, we view them as but first fruits of a great harvest to be reaped by the generations that are to come. We believe that, under the new conditions of University Education, which were called into existence largely through the instrumentality of your late eminent Chancellor, the second half century will greatly surpass the first in scholarship, in original research, and in the pursuit of truth and knowledge; and we desire to express the hope that the University of Calcutta will, as the years roll on, become increasingly a centre of light and learning and good citizenship, and a source of growing pride and reverence to the ardent youth of Bengal.

(Sd.) ARTHUR LAWLEY,
Chancellor.

SENATE HOUSE,
Madras, 12th March, 1908.

(Sd.) RALPH S. BENSON,
Vice-Chancellor.

(Sd.) GLYN BARLOW,
Registrar.

THE UNIVERSITY OF THE PANJAB

TO

THE UNIVERSIY OF CALCUTTA.

Greeting.

We desire to offer you our warmest congratulations on this occasion, when you celebrate the Jubilee of your foundation. It is fifty years since you lit once more the ancient torch of learning in Calcutta shedding a new light not only in Bengal, but through

The University of Calcutta & Acharya P.C.Ray 1906-1944

India, even to the distant plains of the Five Rivers. Other Universities have arisen, and your ægis has been withdrawn from the spheres of their influence, yet we have not forgotten the benefits of former days, and we are glad of an opportunity of offering a tribute of esteem and veneration to the Premier University of India.

By your example you have pointed the way to progress, inspiring others to emulation. Among your alumni you have given India men of high character and sound learning who have been a powerful force for good and an encouragement to the cause of higher education. Our own Vice-Chancellor is of your training and we rejoice in the honour you are showing him on this occasion.

We rejoice also to see the bond of mutual sympathy and community of ideals thus conspicuously proclaimed by your cordial invitation to our delegatas, and hope this auspicious occasion may mark the beginning of a closer communion in the future between the Five Sisters.

Great as your success and prosperity has been in the past may you attain even a greater measure of these in the future and may your influence for good grow and expand through the centuries.

Signed on behalf of the University.

P. CHATTERJEE,
Vice-Chancellor.

(Sd.) A. C. WOOLNER,
Registrar.

ADDRESS FROM THE UNIVERSITY OF ALLAHABAD.

ओः

अहो महानयमद्य हार्दप्रमोदप्रकाशनावसरोऽस्माकं यत् पुरा भारतवर्षीयप्रधानराजधानीकलिकाताख्य-पूर्वदेशोदय-पर्वत इव प्रथमं प्राप्तप्रकाशोऽयं सूर्य्य इव विश्वविद्यालयः पञ्चाशत्तमवत्सरपूर्त्तौत्सवमनुभवतीति ।

एष इयता कालेन बाष्पीय-वैद्युतरासायनिकशस्त्र-चिकित्सादि-विविधनवनवाविर्भवद्विद्या- किरणैर्भारतवर्षीय-सर्वदिगन्तेषु जाड्यमपनुदन् सर्वदेशस्थविद्यानुरागिजनचेतस्स

सविस्मयं भयप्रबोधप्रकाशमाविर्भावयन् नूनं भारतवर्षीयसर्व-विश्वविद्यालयानां गुरुस्थानगौरवमुद्दधाति येषां कनिष्ठोऽयं प्रयागाभिधसंयुक्तदेश राजधानी प्रतिष्ठितो विश्वविद्यालय आसन्नविंशवर्षवयस्कतया नातिचिरासादिततारुण्य: स्वता-रुण्योचितविश्वजनोनचेष्टाये प्रहृष्यन् प्रयतते प्राथमिक-भवदनुकरणाय ।

विस्मार्यन्ते किल भवन्तमेव प्राथमिकोपदेष्टारमनुस्मृत्य सर्वैर्विश्वावेदालयैर्भारतवर्षे ता विद्या दाभिर्विधियते स्वोपासक मानवमानसेषु परस्परहिताचरणोपयिको भ्रातृ-भाव आत्मभावो वा ।

किं बहुना पुराऽसंभाव्यमानानि असंख्यसुखफलानि प्रत्यहममूभिर्विद्याभि: प्रत्यक्षं लभमाना भारतवर्षीयसर्व-प्रदेशवासिनो जना यत् प्रतिवर्षं विद्यालयेष्वधिकाधिकं प्रविशन्त: प्रहृष्यन्ते सोऽयं भवत एव सुभोपक्रमोदर्क: ।

तदेष बालकसमानोऽपि सप्रेमादरनिमग्नमनेन गौरव-मारोप्य श्रीमताऽनुगृहीतो विश्वविद्यालय: श्रीपरमेश्वर-समीपे भवदीयमुत्तरोत्तरप्रतिष्ठोपचयं तेन सर्वजनानाम-साधारणमुपकारं मुहुरीदृशमहोत्सवावसरं याचमान: स्वकीयभक्तिप्रहर्षातिशयशंसि श्लोकाक्षरं पत्रमिदमुपदापदे परिकल्प्य निर्व्याजं भवत्प्रासादमभ्यर्थयत इति । शुभम् ॥

ROB. S. AIKMAN,

Vice-Chancellor, University of Allahabad.

The Hon'ble the Vice-Chancellor thanked the Delegates of the different Universities for the congratulatory addresses they had presented.

372. The Hon'ble the Vice-Chancellor then presented the Hon'ble Sir Andrew Henderson Leith Fraser, K.C.S.I., M.A., LL.D., Rector of the University and Lieutenant-Governor of Bengal, to His Excellency the Chancellor for the purpose of receiving the Honorary Degree of Doctor of Literature in the following form :—

"May it please Your Excellency—I present to you, Sir Andrew Henderson Leith Fraser, K.C.S.I., M.A., LL.D., who has been duly recommended by the Syndicate and the Senate of this University as a fit and proper person, by reason of his eminent position and attainments, to receive the Honorary Degree of Doctor of Literature, to which I pray that he may be admitted."

His Excellency the Chancellor then delivered the diploma of the Honorary Degree of Doctor of Literature to Sir Andrew Henderson Leith Fraser and said—

"By virtue of the authority vested in me as Chancellor of this University, I admit you, Andrew Henderson Leith Fraser, to the Honorary Degree of Doctor of Literature."

The Hon'ble Sir Andrew Henderson Leith Fraser then signed the Register of Honorary Degrees conferred by the University and resumed his seat.

373. The Hon'ble the Rector of the University then presented to His Excellency the Chancellor, the Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, M. A., D. L., F.R.A.S., F.R.S.E., for the purpose of receiving the Honorary Degree of Doctor of Science in the following form :—

"May it please Your Excellency—I present to you the Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, M.A., D L., F.R.A.S., F.R.S.E., who has been duly recommended by the Syndicate and the Senate of this University, as a fit and proper person, by reason of his eminent position and attainments for the Honorary Degree of Doctor of Science, to which I pray that he may be admitted."

His Excellency the Chancellor thereupon delivered to the Hon ble Dr. Asutosh Mookerjee, the diploma of the Honorary Degree of Doctor of Science and said—

"By virtue of the authority vested in me, as Chancellor of this University, I admit you, Asutosh Mookerjee, to the Honorary Degree of Doctor of Science."

The Hon'ble Dr. Asutosh Mookerjee then signed the Register of Honorary Degrees conferred by the University and resumed his seat.

374. The Hon'ble the Vice-Chancellor then presented to His Excellency the Chancellor in usual form, each of the undermentioned gentlemen for the purpose of receiving the Honorary Degree mentioned against his name :—

Professor Arthur Schüster, Ph. D. (Heidelberg), M.Sc. (Manchester), Hon. Sc. D. (Cantab.), F.R.S.	Honorary Doctor of Science.
Dr. Ramkrishna Gopal Bhandarkar, M.A., Hon. Ph. D. (Göttingen), Hon. LL.D. (Bombay), C.I.E.	Honorary Doctor of Philosophy.
The Hon'ble Mr. Justice Pratulchandra Chatterjee, Rai Bahadur, M.A., B.L., C.I.E.	Honorary Doctor of Law.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L.	Honorary Doctor of Philosophy.
Rev. Father E. Lafont, S.J., C.I.E., M.I.E.E.	Honorary Doctor of Science.
Sir Herbert Hope Risley, I.C.S., B.A., K.C.I.E., C.S.I.	Honorary Doctor of Philosophy.
Surgeon-General G. Bomford, C.I.E., M.D., I.M.S.,	Honorary Doctor of Medicine.
Thomas Henry Holland, Esq., A.R.C.S., F.G.S., F.R.S.	Honorary Doctor of Science.
Dr. Praphullchandra Ray, D.Sc., F.C.S.	Honorary Doctor of Philosophy
Dr. G. Thibaut, Ph.D., C.I.E.	Honorary Doctor of Science.

Sir Subbaiyar Subramaniya Aiyar, Dewan Bahadur, K.C.I.E., B.L., who was named for the Honorary Degree of Doctor of Law and Shams-ul-Ulama Syed Ali Bilgrami, B.L., who was named for the Honorary Degree of Doctor of Literature were unavoidably absent.

Each recipient of an Honorary Degree, after having received the diploma from His Excellency the Chancellor, signed the Register of Honorary Degrees conferred by the University and resumed his seat.

375. His Excellency the Chancellor then called upon the Hon'ble the Vice-Chancellor to grant the ordinary Degrees.

The graduates of the year were then admitted to their respective Degrees in the usual manner

The University of Calcutta & Acharya P.C.Ray 1906-1944

376. His Excellency the Chancellor then addressed the Convocation as follows :—

MR. VICE-CHANCELLOR AND MEMBERS OF THE CONVOCATION,—

This is the third Convocation over which I have had the honour to preside since I succeeded to the office of Chancellor. But to-day's assemblage is exceptional in that this year the University has attained to its 50th anniversary—and I must congratulate you, Mr. Vice-Cha cellor, and the University authorities, and graduates on their first Jubilee.

It is a memorable day in the history of the University. I only wish that your Chancellor could have discovered a few leisure hours to better qualify himself to address the Convocation on this auspicious occasion, for the past 50 years have been very full of incident——full of material for study of the growth and the results of education, and for careful consideration of its future problems.

It is curious to look back, from our present educational standpoint, to the early days of the East India Company. For many years after they had taken over the administration of the territories they had acquired, no attempt was made to inaugurate any regular system of education. Their policy was to leave the scattered and widely different indigenous system such as they were to themselves, undisturbed and unsupported by grants from Government, and together with this disregard for the teaching of the people over whom they had commenced to rule, there would appear to have been a marked decline, amongst the Indian population itself, in the cultivation of literature and science.

My ancestor, Lord Minto, refers to this decline in a very interesting educational Minute of March 6th, 1811; he says—"It is a common remark that science and literature are in a progressive state of decay among the natives of India. The number of the learned is not only diminished, but the circle of learning, even amongst those who still devote themselves to it, appears to be considerably contracted.

The immediate consequence of this state of things is the disuse, even actual loss, of many valuable books; and it is to be apprehended that, unless Government interposes with a fostering hand, the revival of letters may become hopeless, from a want of books or of persons capable of explaining them. The principal cause of the present neglected state of literature in India is to be traced to the want of that encouragement, which was formerly afforded to it by Princes, Chieftains, and opulent individuals under the Native Governments, and he goes on to tell how a liberal patronage "was formerly bestowed, not only by Princes and others in power and authority, but also by the Zemindars, on persons who had distinguished themselves by the successful cultivation of letters."

But, Mr. Vice-Chancellor, we have with us to day a distinguished Indian gentleman, who has nobly followed the example of the great men of hundred years ago. The munificent gift of the Maharaja of Darbhanga to the University Library will earn for him the

lasting gratitude of the Indian literary world, and I feel sure that I shall meet with warm approval in exercising my power as Chancellor, and nominating him an Honorary Fellow for life, as an eminent benefactor of the University.

But to return to early days. Perhaps it was only natural that during the hard-fought wars of the Company there should have been little time to spare for the care of the arts and sciences, whilst the great Eastern potentates who had done so much to patronise them were themselves struggling for existence. However that may be, it was for Warren Hastings first to recognise the responsibility of the Government, and in 1782 he founded the Calcutta Madrassa for Mahomedans. Nine years later, came the Hindu College at Benares and it was not till the Charter Act of 1813,—one of the results of Lord Minto's Minute which I have quoted,—that powers were granted to provide systematically from public funds for the furtherance of education and such annual grants were at first confined to the encouragement of oriental methods of instruction, till in 1835 Lord Macaulay wrote that historical minute which went far to introduce Western education into India. Then followed a period of somewhat ill-defined attempts to extend English education, in which self-denying missionary effort played its full part till we reach the next important landmark, the despatch of 1854, from the Court of Directors, which prescribed, among other measures necessary for a more extended and systematic promotion of general education in India, the foundation of Universities at the three Presidency towns. The Calcutta University was incorporated in 1857, and commenced operations with about 50 schools for the Entrance Examination and 13 affiliated institutions for the B.A. Examination. It was modelled on the University of London,—except that, inasmuch as that institution was then a purely examining body. Calcutta University has always included a far greater sphere of influence in the control of the colleges and schools affiliated to it,—and Lord Canning in the midst of the tremendous responsibilities which everywhere surrounded him became its first Chancellor. Fifty years have passed by since then, and to day an Indian gentleman, a distinguished scholar and jurist, brings to bear on the conduct of its affairs a patriotic zeal for the promotion of higher education among his fellow-countrymen which is only equalled by his experience and administrative ability. I congratulate the University on its possession of Dr. Mookerjee as its Vice-Chancellor,—a worthy successor of other eminent Judges of the High Court who have before him filled the Vice-Chancellor's Chair. But I would impress upon you that he has assumed the reins of office at a turning point in the history of the University, for with its Jubilee the University enters not only on a new chronological era, but on a new regime, under new administrative conditions, the Incorporation Act of 1857 having, as you know, been amended by the University Act of 1904. There may have been doubts as to the character of the new regime and the suitability of the new conditions to the wants of the country and of the educated community, but I know of no pilot more capable of steering the ship of learning through educational shoals and quicksands than

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. Mookerjee and I have no need to prophesy as to the future. Yet of this we may rest assured, we have embarked upon what has been very aptly called—"The New Ideal" in University education in India—possibilities are in the air which have not yet been moulded into shape—early conceptions of the aims of University education are giving way to the hopes of educational influence over social life—a thirst for practical knowledge, and for the wholesome enjoyment of the advantages offered by residential colleges is beginning to deem the momentary glories of successful examinations. I believe that on the proper development of affiliated residential institutions the power of this University to confer lasting benefits upon the people of India will largely depend. How that development can be furthered is one of the problems with which we have to deal but in one direction it would appear to me to afford exceptional opportunities —for the encouragement of religious training —for though the Government of India must, as I have recently said, hold the balance evenly between all religions and sects, I cannot but feel that a system of education which aims at the training of youth with no regard for religious truths ignores the very foundation upon which all that is noble in a people should be built.

The entire absence of religious teaching is a defect in our system of education—and yet it is a defect with which the absolutely necessary religious neutrality of British administration renders it impossible for the Government of India to deal. Before the advent of Western learning secular and religious instructions went hand in hand. The teacher was also the spiritual guide, and we cannot disguise from ourselves that a system for which we are answerable has to a large extent deprived the student of instruction of his own faith. It would be useless now to speculate as to what proportion of the causes for any untoward results may be allotted to the system, or to the want of religious teachers or to the students themselves, but I would ask the latter to assist as far as in their power to neutralize the evil. They and the University authorities can justly look to the religious associations throughout India for assistance. I have been a University student myself, and I know full well how the surroundings of University life go to form a young man's character and to assist in his future career. One is apt to think of such things perhaps too late, after we have bid farewell to our *alma mater* when opportunities have been lost that can never be recovered, and I would ask you, young men of the Calcutta University, to enquire of yourselves at this period of your lives what this education has done for you, and to think how you can best utilize it. Do not let the knowledge it has given you lead you astray. It will have opened to you fresh hopes, and glittering possibilities for the future, but should all the more deepen your sense of duty and responsibility. You have come to manhood at a period of great educational advancement throughout India, and at a time too when, through a certain backwardness in the development of indigenous industries there is not sufficient employment for the ever-increasing educated class who seek for it. At present too I know that high prices and increased expenditure in living are pressing hard on the "Bhadralok" of Bengal, who may natu-

rally feel that what they have spent in education is after all yielding them but a poor return, and I fully sympathise with them in their difficulties. But yet I hope that, with each succeeding year the growth of home industries, and the consequent demand for greater technical knowledge, together with the restoration of Indian art and letters, will throw open fields of employment, which now scarcely exist, for those who need never think they have wasted their time in a University education. In furtherance of my hope, I have great pleasure, Mr. Vice-Chancellor, in announcing that the Government of India will give an annual grant of Rs. 10,000 towards the establishment of a Chair of economic science. Education must move with the times, and I trust that this new Professorship will out within reach of the students of this University opportunities for obtaining that practical instruction which commercial enterprise and universal competition will more and more require. The past history of the University augurs well for the success of the invaluable work it has before it.

377. The Hon'ble the Vice-Chancellor then, at the desire of His Excellency the Chancellor, addressed the Convocation as follows :—

Your Excellency, Your Honour, Ladies and Gentlemen,

My first words on the present occasion must be expressive of my deep gratitude to His Excellency for the extremely kind and indulgent manner in which he has commended me and my work in the University; my sincerest thanks are no less due to the members of this distinguished assembly for the obvious marks of satisfaction with which they received that approbation. I deem it, indeed, a great privilege to be permitted to address this Convocation which has been held in commemoration of the Jubilee of the University. On an auspicious occasion of this description, one naturally feels tempted to review the progress of the University during the fifty years of its existence and to recount the benefits which have resulted to our people from its foundation. Such an elaborate survey, however, must be more fittingly reserved for the Memorial Volume which the University intends to publish, and I must restrict my theme on the present occasion to the barest outline of the position we occupy at the present moment, indicating, on the one hand, the progress we have made in the past, and, on the other, the vastly extended range of work which we have to accomplish in the future.

When I had the honour to address the Convocation twelve months ago, it was my painful duty to refer to the heavy losses we had recently sustained in the ranks of our devoted workers. It is a matter for congratulation, that in this respect, we have been comparatively fortunate during the last year, although we have to deplore the loss of some distinguished friends and workers of the University. Maharaja Sir Joti dramohan Tagore, who occupied the foremost position in Indian Society and whose loss is mourned by all sections and classes of the community, was remarkable alike

for his culture and wisdom. He was a true friend of education, and a sincere promoter of earning; the interest which he took in the work of the University as President of the Faculty of Arts and as a member of the Syndicate, is still held in grateful remembrance, while his benefaction will transmit his name to future generations of students of law. Babu Sreenath Das greatly distinguished himself as a student and teacher of Mathematics in pre-University days, while he was known to a later generation as a brilliant member of the legal profession and as a representative of the Faculty of Law on the Syndicate. Babu Umeschandra Datta was a quiet and unostentatious worker in the unremunerative paths of education, and his name will be cherished by future generations, for solid work modestly accomplished in the development of one of the foremost Colleges of this city, in the progress of the education of our females, and in the promotion of charitable and religious institutions. By the death of Doctor Moir, who represented the Faculty of Medicine on the Syndicate, we have been deprived of the services of a gentleman of the highest professional attainments and character, and the lamentable circumstances under which his career was cut short in the prime of life, inevitably call forth the deepest admiration for unflinching devotion to duty in the face of obvious and immense personal danger. By the retirement of Mr. Ratcliffe, the Senate has been deprived of the services of a member whose views on academic matters were put forward with courage and moderation, and smoothed many a debate when the new Regulations were framed. Last but not the least, by the retirement of Dr. William Booth, the Indian Educational Service has lost one of its most capable and distinguished members, a man remarkable for independence of character and unflinching devotion to what he felt was right. His services to the cause of education in this country as the Principal of important Colleges, as an Inspector of Schools, as a Director of Public Instruction and as Registrar of this University can hardly be over-estimated. The enthusiasm which he kindled in his pupils, among whom I have the privilege to count myself as one, by his brilliant lectures and investigations in Mathematics, has never been surpassed in this country, and his name will be held in grateful recollection by more than one generation of Indian students.

Two events of paramount importance to the progress of our academic work have happened during the last twelve months, and deserve more than a passing notice. To one of these, the munificent gift of two and a half lacs of rupees by my Hon'ble friend the Maharaja Bahadur of Darbhanga, a felicitous reference has already been made by His Excellency the Chancellor. The other is a munificent gift of another two and a half lacs of rupees by the late Babu Guruprasanha Ghose, one of the most cultured scions of a well-known aristocratic family of this city. Forty years ago, the University was the fortunate recipient of five lacs of rupees, out of which two were contributed by an enlightened prince of merchants, Mr. Premchand Roychand of Bombay, and three by an accomplished lawyer of this Province, Babu Prasanna Kumar Tagore. I cannot but deem it a fortunate circumstance, that on the present occasion, we have enlisted the sympathies of the

wealthy aristocracy of these Provinces, and that we owe our benefactions to members of that body who have lived in the temple of Fortune, and there unsatisfied, have gone higher, by arduous steps, to the temple of Charity, where they have so fittingly bestowed their gifts, in the consciousness that great acquisitions involve great responsibilities. It is worthy of note that the bounty of each has been called forth for an object which is of incalculable importance to the advancement of Education in this country. The benefaction of the Maharaja of Darbhanga is to be devoted for the foundation and extension of the University Library ; the benefaction of Babu Guruprasanna Ghose is to be applied to train Indian students in the Arts and Industries of Europe, America and Japan. Whatever controversy there may be as to the future development of this University, there can be no possible doubt or dispute as to the sovereign importance of a Library and a Technological Institute. Whoever, therefore, gives us ample funds for the foundation of a Library where the archives of the human race may be treasured and studied, whoever gives us funds to train our young men in laboratories, which not only open the arcana of Nature but directly promote the industries, must awaken our admiration and imperatively claim perpetual gratitude. I fervently hope, that these recent examples of beneficence, so great and wise, so well calculated to advance the moral and intellectual welfare of our youths, will not be completely lost to the many enlightened representatives of wealth and culture in this great Province.

I shall now pass on for a moment to the work of the University during the last twelve months in the way of enforcement and practical realization of the new Regulations. As I had occasion to observe last year, the portions of the new Regulations which are of fundamental importance, are those for the appointment of University Professors, Readers and Lecturers. They mark an epoch in the history of the University which is no longer to be restricted to its scope of an examining body with power to grant Degrees, but is in future to undertake post graduate teaching and ultimately form a centre for the cultivation and advancement of knowledge. It is a matter for congratulation that the University has found it practicable, with the limited means at its disposal, to make a definite and substantial advance in this direction. We have been able to secure the co-operation of three distinguished scholars as University Readers, each of whom is unquestionably pre-eminent in his own special subject. The brilliant lectures of Dr. Phibaut on the Astronomics of the ancient Oriental nations and of Professor Schüster on the progress of modern Physics, have rightly evoked considerable enthusiasm amongst our advanced students and College Lecturers, while the course of lectures on the Geology of India announced by Dr. Holland, is awaited with wide spread interest. I am not altogether without hopes that our funds may permit us to arrange for other courses of lectures during the next year upon subjects of vital interest and importance to Indian scholarship. During the last twelve months also, the Senate has arranged for a large number of University Lecturers for the benefit of post-graduate students, and it is worthy of note, that although we have not found it practicable to make adequate

provision for all branches of study, literary and scientific, provision has been made for lectures which were urgently needed including instruction in Pali language and literature by Mr. Kosambi, a Maharatta scholar of considerable distinction, and advanced instruction in the Vedas by Acharyya Satyabrata Samasrami, the foremost Vedic scholar in this Province, who has devoted a life time to these special studies. By the munificence of the late Babu Sree Gopal Basu Mallik, we have been further enabled to appoint a brilliant graduate of this University, Pande Ramavatar Sarma, to lecture on the Vedanta Philosophy and to unravel to our students the intricacies of that fascinating subject. The University has also, during the past twelve months, instituted prizes in commemoration of our Jubilee for the promotion of literary and scientific research by our graduates, and we have further found it possible with the help of money placed at our disposal by a Memorial Committee, presided over by an Ex-Vice-Chancellor of this University, the Hon'ble the Chief Justice of Bengal, to institute a research prize in Medicine which is to bear the name of the late lamented Maharaja Sir Lachmessur Singh of Darbhanga. Lastly, the Senate has sanctioned the institution of twelve post-graduate scholarships of the value of Rs. 32 a month, each tenable for two years, by distinguished Bachelors of Arts and Bachelors of Science who desire to proceed to the degree of Master. To crown all this, we have the gracious announcement by His Excellency the Chancellor about the foundation of a University Professorship which has been received by all with feelings of intense satisfaction, and which will make the administration of His Excellency gratefully remembered for ever as the era of effective and substantial support by the State to the cause of the highest education of Indian youths. I trust I have said enough to show that this much may be legitimately claimed on behalf of my colleagues on the Senate that there has been no lack of zeal or devotion on that part of the members of this University, and that we have established strong claim upon the munificence of my wealthy and educated countrymen for substatial help, so that we may

"Draw new furrows beneath the healthy morn
And plant the great hereafter in the now."

Another work of vital importance upon which the University has been engaged during the last twelve months, is a preliminary survey of all our affiliated Colleges and recognised Schools. As I had occasion before to point out, the control of the University over the affiliated Colleges and recognised Schools, and the power of supervision created by the new Regulations, are likely to have far-reaching consequences. Henceforth it will be the first duty of the University to secure the efficiency of the Colleges, and to be assured that the recognised Schools are maintained as places, where sound education is imparted and strict discipline is enforced. We have within our jurisdiction more than fifty Colleges and over six hundred Schools; the reports upon their condition, which will require careful consideration, make it amply manifest that the

Institutions where our boys and youngmen receive their training, are, I regret to say, almost without exception much below the standard of efficiency contemplated by the new Regulations. I have no desire to magnify our difficulties, but at the same time, I feel keenly that it would be a fatal mistake to ignore them and to take a too optimistic view of the situation. It is safe to say that the educational Institutions of the future, quite as much as those of the present, will be largely controlled, if not dominated, by three factors teachers, instruments and books. In each of these vital elements, the deficiency of our institution is remarkable. They are without exception, undermanned ; of Libraries and Laboratories there are only a few, if any, which can satisfactorily stand the scrutiny of the most reasonable test applied according to western ideals. The one possible solution of the situation plainly appears to me to be the expenditure of more money for educational purposes. I wish it to be understood that I make no exception in favour of any particular Institution, be it maintained by the State or aided from public funds, or supported by private munificence. They all stand in need of urgent reform and expansion, and it is indisputable that if they are to be maintained in a state of efficiency, their scope must be restricted, and the authorities of each Institution must concentrate their attention and direct the energies of their teaching staff to selected branches of knowledge. But even if each Institution specializes as I have suggested, considerable expenditure will be necessary to strengthen the staff, to remunerate them decently, if not adequately to improve the Libraries, and to establish proper Laboratories. The warning cannot be too soon or too emphatically given, that strenuous effort and large outlay will be imperatively needed for many years to come, on the part of all interested in the welfare of our Colleges and Schools.

From this imperfect review of our present position and future prospects, let us travel back in our imaginations, for a moment, half a century back to the time when the University was founded, and take stock of the progress we have made. I do not desire to dwell at any length on the rapidity and exuberance of the growth of the University, though it is indubitably a matter for sincere congratulation. It would hardly be profitable to recount how the University started with a dozen Colleges and a few hundred students, and how, in less than a quarter of a century, the number of Institutions within its jurisdiction had increased sixfold, and the students directly amenable to its influence had to be counted by thousands. Nor is it necessary for me to remind you, how with the phenomenal progress of education throughout the whole of Northern India and under the pressing demand of local conditions, two other Universities have grown out of the parent body, like offshoots from the banyan tree, and now exercise a salutary influence over education in the United Provinces and the Punjab, while our original Institution, territorially restricted, still exhibits unabated vigour and activity. I need also make only a passing reference to the circumstance, that the benefactions which the University owes to the munificence of private individuals, represent fourteen lacs of rupees, to which may be added our Reserve Fund of six lacs. I do not lay special stress upon these figures, for although they indicate to

some extent the popularity of the University, and some degree of prosperity, the sums at our disposal are totally inadequate for our needs and would rightly be regarded as insignificant in Europe and America, where, what has taken us half a century to accumulate, would not improbably be contributed by a single beneficent founder like John Hopkins or Leland Stanford. I pass by this aspect of the material progress of the University, and I pause for a moment to ask, what progress we have made in our conception of the true scope and functions of a University during half a century of its existence. Here, at any rate, it is some satisfaction to find that we have made definite progress in the right direction. The fundamental conception which lies at the root of the Act of Incorporation of 1857 was that the University was to be a purely examining body. Nearly half a century later, we have come to realise that the object of the University is something wider and nobler than the mere application of tests, however searching they may be, to determine the extent and accuracy of knowledge acquired in Institutions over which the University had no direct or adequate control. The present conception of the function of the University is, that it is an Institution for the acquisition, conservation, refinement and distribution of knowledge. I believe it is the opinion of most persons competent to form an opinion upon educational matters, that this salutary change in the conception of the true function of this University, has been recognised not a moment too soon. The original limited conception of the University as an Institution which exists solely to conduct examinations and confer Degrees, necessarily produced the disastrous result that teaching was subordinated to examinations. While it may be conceded that a system of examinations, properly and reasonably conducted, has undoubted advantages in every system of academic study, it would be idle to deny that there are grave abuses and distinct tendencies to abuse in the extraordinary development of the Examination System in modern times. One of the greatest evils is hasty cram at the last moment instead of the quiet and deliberate appropriation of knowledge from day to day. Another, and, perhaps, a still greater evil, is the desire to adapt the teaching to the examination, or to put it from the point of view of the student, an ingenious attempt to circumvent the examiner by a close study of his habits and proclivities. A third evil, equally disastrous, is an artificial determination of subjects of study which are selected by the student, not entirely from the point of view of his special aptitude, but very often from considerations whether a particular subject pays well at the examination. These and other evils which, if not inherent in, are at any rate concomitant to all elaborate systems of examination, are naturally aggravated, where, as here, a University exists exclusively for purposes of Examination. I rejoice, therefore, that under our new constitution, post graduate teaching is definitely regarded as one of the duties of the University, and henceforth I trust the principle will never be overlooked that the teacher is unworthy of his vocation who keeps the coming Examination perpetually in sight, that examinations are subordinate to teaching, not that teaching exists for the sake of examinations. Another fundamental idea, to some extent inseparably associated with the position I have

just indicated, is partially recognised for the first time, by the new Regulations, and when further developed, may have far-reaching consequences—I mean the recognition of the claims of research in every system of advance education. I am not unmindful that there is an unwholesome dread of the very term 'research' among some people who profess to be interested in education, but I sincerely trust there is none such in this assembly. It is rather late in the beginning of the twentieth century to doubt or dispute the value and importance of research as a part of academic training and as necessary qualification for admission to the highest Degrees of the University. Call it by what name you will, describe it if you please, as investigation, or as advancement of knowledge in the language of Bacon, or as creative action in the phrase of Emerson, or as constructive scholarship in the words of Munsterberg, there can be no possible controversy as to the importance of the conception. I do not deny that every aspirant for research, at the outset of his career, requires control and the benefit of the counsel of a more learned and experienced person. But with adequate preliminary training and proper guidance, our advanced students are thoroughly qualified to enter upon the field of investigation, as a proof of which it is sufficient to mention, that this afternoon, for the first time, we have conferred the Degree of Doctor of Philosophy upon two of our distinguished graduates, Dr. Satischandra Vidyabhushan for contributions to the history of Indian Logic and Dr. Abdullah Sohraworthy for contributions to Mahomedan Jurisprudence. Nor should I pass over in entire silence upon the much debated question of the relation of instruction to research. It is asserted by some with a degree of confidence, that Professors engaged in research must to some extent neglect the interests of the students committed to their care, and that if they are devoted to the interest of their students, they have no time for research. But while I do not deny that serious administrative duties are impediments to prolonged work in the Laboratory or the Library it is undeniable that instruction is not administration, and it is quite possible to combine instruction with investigation ; as a proof, it is sufficient to refer to important investigations in the domain of Chemistry by my friend Dr. Praphullachandra Ray of the Presidency College, which have been utilised even for purposes of elementary instruction. The truth seems to me to be that while sterile intellects attribute their non-productiveness to overwork, a more acute diagnosis detects a lack of will-power. I fervently hope that the conception of research has come amongst us to stay, and will spread throughout the land from peak to peak like the signal fires described by the Greek Dramatists of old.

There are two other fundamental ideas inseparably associated with the progress of the University which deserve a brief reference on the present occasion. When this University was established half a century ago it was founded upon a policy of religious neutrality and ever since then, our Regulations have wisely embodied an emphatic declaration that no question shall be asked at any University Examination which would require an expression of religious belief of the part on the candidates and no exception shall be admissible against any answer on the ground that it expresses peculiarities of religious belief. The wisdom of this

The University of Calcutta & Acharya P.C.Ray 1906-1944

policy has never been seriously questioned, but the result has been somewhat unexpected and has often been rightly lamented. A theory has gained ground for many years past that nothing need be taught in Schools and Colleges which is not directly required for purposes of University Examinations, and that consequently, it is no past of the duty of the Institutions in which our boys and youngmen are trained, to consider the question of their moral and religious instruction. It is however undeniable that, as His Excellency has so appropriately pointed out, no system of education which is purely intellectual and which leaves severely alone the moral and religious elements of life, can satisfy the national want or promote the growth of healthy manhood. If this University is to have a permanent hold upon the mind of our people, this aspect of the problem will have to be faced and solved. I do not profess to have discovered a remedy, but I fifmly believe that if the authorities of our Colleges and Schools earnestly take the matter in hand, a practical solution will be attainable I do not deny that we are still at the threshold of the residential system of education which was in times past, our own indigenous system and which now prevails in European Universities, and, it may be, many a long year will pass, before the University will be in a position through its Colleges to exercise that domestic discipline over its students which is a valuable feature in the Universities of the West. But there is no reason why, meanwhile, moral and religious training should not be coincident with intellectual discipline. If this is fundamental to all real progress, as I firmly believe it to be, it is surely our duty to see that while our youths are forming their habits of body and mind, they are also forming their habits of moral and spiritual life, and that they are taught, not necessarily in the College, but simultaneously with their Collegiate lessons to build on firm foundations their ethical conduct and their religious faith. I need hardly assert that as a pre requisite to the success of any system which may be devised, it would be essential that every student, under the guidance of his guardian, should have absolute freedom to be trained in the religious faith of his forefathers ; that, subject to this restriction, the idea is workable is illustrated by what has been accomplished in the Central Hindu College of Benares which is rightly regarded as one of the soundest and most remarkable Institutions founded in recent years. I have no faith in the efficacy of abstract religious maxims solemnly inculcated by grave teachers upon youthful minds which receive no impression from the process. But I believe, it would be far more profitable to illustrate the fundamental principles of every system of morals and religion by examples of truth, purity, charity, humility, self-sacrifice, gratitude, reverence for the teacher, devotion to duty, womanly chastity, filial piety, loyalty to the King, and of other virtues, appropriately selected from the great national books of Hindus and Mahomedans. These cameos of character, these ideals of our past, portrayed with surpassing loveliness in the immortal writings of our poets and sages, would necessarily capti vate the imagination and strengthen the moral fibre of our youngmen, who would thus acquire genuine respect for those principles of life and conduct which have guided in the past

countless generations of noble men and women in this historic continent.

The other fundamental doctrine which lies at the root of our University system of education and to which I desire to make a brief reference, is the principle that European knowledge should be brought home to our students through the medium of English—that western light should reach us through western gates and not through lattice work in eastern windows. The validity of this principle which has been firmly settled for three quarters of a century, has latterly been seriously questioned by people of culture and position whose opinion claims consideration. I need not on the present occasion, after what His Excellency has said, review the history of the educational problem of this country during the early part of the last century, nor have I the time at my disposal to recall to your minds how before the first Educational Despatch of 1813, the question of the education of our people was treated with indifference by our Rulers, although the Calcutta Madrassa had been established by Warren Hastings for the benefit of Arabic studies and the Sanskrit College at Benares had been founded by Jonathan Duncan for the promotion of Sanskrit learning. Nor need I dwell at length upon the strange circumstance which has always seemed to me to be an irony of fate, that while from 1813 onwards the authorities were bent upon the improvement of Indian education by the encouragement of persons learned in Sanskrit and Arabic, distinguished members of the Indian Aristocracy under the inspiration of David Hare and Ram Mohan Ray founded the Hindu College on the principle, that whoever desires to obtain a liberal education must begin by a mastery of the English language as a key to the Science and Literature of Europe. It is enough for me to remind you that nearly twenty years after the foundation of the Hindu College by my countrymen, the struggle between what has been not very felicitously described as Anglicism and Orientalism, terminated in favour of the former, and the great Minute of Lord Macaulay and the famous Resolution of Lord William Bentinck, set the seal of authoritative approval upon the principle unsuccessfully advocated by Raja Ram Mohan Ray and Dr. Alexander Duff, that a thorough first hand aquaintance with English language and literature, will always be essential to those amongst my countrymen who aspire to a high order of education. This principle, thus broadly formulated, was definitely adopted as the foundation of the great Educational Despatch of 1854 in which, as Lord Dalhousie once remarked, Sir Charles Wood, with magnificent audacity outlined a scheme of education for all India, far wider and more comprehensive, than any Local or the Supreme Government would ever have ventured to suggest. That Despatch is still rightly treated as the great charter of high education in India, and I confess, I cannot perceive any solid foundation for the assertion that high education, as outlined in that Despatch, has been a perilous blunder. I emphatically assert, that it has been neither a peril nor a blunder. I can never forget the circumstances under which the Indian Universities were established. What friend of education in this country can afford to forget that although the Court of Directors, with genuine statesman-like fore-

sight, recognised that England's prime function in India was to superintend the tranquil elevation of the whole moral and intellectual standard and directed at a time of profound peace the establishment of the Universities the Acts of the Legislature by which the Universities were called into existence were not passed till the year of the great Mutiny, when the flames of rebellion were still unquenched and the times might have been deemed scarcely suited to educational advancement? Who can deny that the Universities, founded upon just and liberal principles under such circumstances and amid such surroundings will for ever remain as striking monuments of the coolness the persistent energy and the generous impulses of the British race? Can it then be suggested with any semblance of reason, that the Universities so generously established, have failed in their object of the dissemination of European education amongst our people? I have no hesitation that the answer should be an emphatic negative. If the mission of the British nation is not merely the maintenance of order but also the advancement of civilization an organised system of high education is essential, because progress of civilization without promotion of education is a contradiction in terms. As was felicitously observed by one of my distinguished predecessors, who resolutely declined to be frightened by any talk about the dangers of education it is ignorance in every form and in every class which is a source of danger to the body-politic and the strength and stability of a government must depend, not solely upon force, but upon reason upon persuasion, and upon the intelligent appreciation by its subjects of the motives and objects of their Rulers. It is undeniable that the spread of higher education amongst our people has been on the whole beneficent in the direction indicated by Sir Courtney Ilbert; but higher European education promises to the people of this country a great deal more if it is wisely regulated and is supplemented by moral and religious culture, so as to foster the growth of whatever is noble in Indian character. Nearly forty years ago, Baron Napier Governor of Madras and Chancellor of the University of that Province in a memorable address remarkable for prophetic insight and true statesmanship analysed and delineated with the hand of a master the aims and ends to which higher European education will ultimately lead the people of this country. His Excellency specified four objects which the people of this country seemed eventually destined to attain by sedulously following the paths of education *first* a new basis of national unity *second* a rational knowledge of the Institutions of the East *third* self-government or the government of India by the Indians in a modified form and *fourth*, participation in the general intellectual movement of the world now and hereafter. Countless years the end of which no human vision can reach nor sagacity penetrate may roll on before any or all of these objects are realised. But if ever the time comes when in the language of Lord Napier, the Universities of India prove to have done a larger duty than they have exercised elsewhere, and are found to have been not only the nursing mothers of learning and virtue and intellectual delights but also the nursing mother of a new Commonwealth, the foundation of the Universities in the East will prove to have been the brightest glory of the British

race and the supremest triumph of statesmanship. It is meet therefore that we should commemorate the Jubilee of this University which has brought home to our people the gladsome light of western education in the past and which is fraught with magnificent possibilities in the future, and it befits the occasion that we should inscribe on the roll of our graduates the name of the distinguished scientist from Europe who has honoured us by his presence, the names of eminent representatives of the other Indian Universities which are inseparably associated with us by a community of ideals and aspirations, and the names as well of our own faithful workers who have spread the fair fame of the University by their devotion to the cause of advancement of knowledge and promotion of true learning.

Graduates of the University of Calcutta, who have this day been invested with academic insignia, I call upon you to rise to the true dignity of the position which you have just attained and to recognise and fulfil the responsibility which it imposes. Do not imagine that the charge which I have addressed to every one of you on admission to your respective Degree, that you should in your life and conversation show yourself worthy of the same, is a meaningless platitude or an idle formula. Treat it as the parting message of the University to each and every one of you who have been trained, and I trust, adequately equipped for the battle of life, under her beneficent guidance. If I were called upon to develop this charge, I would exhort you in the words of one of the greatest teachers of mankind: "whatsoever things are true, whatsoever things are honest, whatsoever things are just, whatsoever things are pure; whatsoever things are lovely, whatsoever things are of good report, if there be any virtue and if there be any praise, think on these things." In whatever sphere of life your lot may be cast, prove yourself to be the true children of your Alma Mater. Educated by the liberality of the State or by private munificence, strive strenuously to make adequate return; with anxious solicitude, promote the education of your countrymen, and be, each of you, a bright centre of moral and intellectual activity like the scholars of Mediæval Europe, who laden with Greek and Roman learning, brought many of the gems of ancient lore within the reach of those who never had the benefits of classical education and knew none but the vulgar tongue. Make your mission the diffusion of knowledge and virtue and the repression of ignorance and evil. Above all, endeavour to attain stability of character and cultivate that principle of honour, which once tainted or lost can never be regained. Forget not that unless you are honourable men, all your talent, learning and industry will be in vain, and your intellectual powers will be a snare to yourselves and a delusion to others. Cultivate that humility of spirit which the learned and unlearned alike instinctively feel is the true stamp of culture and wisdom. Cultivate also that spirit of obedience to lawful authority, which is the necessary concomitant of true academic discipline. Make yourselves Captains of the peace of the Realm and prove yourselves loyal and valuable citizens, worthy of the confidence alike of your Rulers and of your countrymen. Show to the world, that education and loyalty are not only consistent but that the more advanced the education, the

more genuine the culture, the deeper the attachment to your Rulers. Prove to the world, that genuine allegiance is felt by you for the nation, which by a liberal and enlightened educational policy, have brought your minds into intimate contact with the spirit of the West, and show that such allegiance may be rendered without the least relinquishment of your own nationality and without loss of genuine pride in the magnificent legacy of your ancient civilization.

Students of this University, allow not the pursuit of your studies to be disturbed by extra-academic elements. Forget not, that the normal task of the student, so long as he is a student, is not to make politics, nor to be conspicuous in political life. Take it as my deepest conviction, that practical politics is the business of men, not of boys. You have not that prudent firmness, that ripe experience, that soundness of judgment in human affairs, which is essential in politics, and will be attained by you only in the battle of life, in the professions and in responsible position. Train yourselves, if you please, in Political Economy, Political Philosophy, Jurisprudence and Constitutional Law; acquire an intelligent comprehension of the great lessons of History; but delude not yourselves in your youthful enthusiasm that the complex machinery by which a State is governed may be usefully criticised and discussed without adequate training and laborious preparation. Remember further that if you affiliate yourselves with a party, you deprive yourselves of that academic freedom which is a pre-requisite to self-education and culture. Submit not, I implore you to intellectual slavery, and abandon not your most priceless possession, to test, to doubt, to see everything with your own eyes. Take this as a solemn warning that you cannot with impunity and without serious risk to your mental health, allow your academic pursuits to be rudely disturbed by the shocks of political life. Devote yourselves, therefore, to the quiet and steady acquisition of physical, intellectual and moral habits, and take to your hearts the motto,

"Self-reverence, self-knowledge, self-control,
These three alone lead life to sovereign power."

Follow the path of virtue, which knows no distinction of country or colour; be remarkable for your integrity as for your learning, and let the world see that there are amongst you

"Souls tempered with fire,
Fervent, heroic and good—
Helpers and Friends of mankind."

378. The Vice-Chancellor then declared the Convocation closed and the procession left the Hall in the same order in which it entered.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.* G. THIBAUT, *Registrar.*

35

MINUTES OF THE SENATE

FOR THE YEAR 1908.

No. 7.

THE 21ST MARCH, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

G. W. KUCHLER, Esq., M.A.
Director of Public Instruction, Bengal.
DR. P. K. RAY, B.Sc.
SIR GOOROO DASS BANERJEE, Kt., M.A., D.L., Ph.D.
THE HON'BLE DR. RASHBEHARY GHOSE, C.I.E., M.A., D.L.
BABU GOLAPCHANDRA SARKAR SASTRI, M.A., B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
BABU GOLAPCHANDRA SARKAR SASTRI, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
SHAMS-UL-ULAMA MAULAVI AHMAD.
BABU BIPINBIHARI GUPTA, M.A.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARAI, M.A., B.L.
W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
DR. C. E. CULLIS, M.A., Ph.D.
H. R. JAMES, Esq., M.A.
DR. E. D. ROSS, Ph.D.
MADHUSUDAN DAS, Esq., C.I.E., M.A., B.L.
REV. A. TOMORY, M.A.

REV. R. GEE, M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
J. N. DASGUPTA, ESQ., B.A.
W. H. EVERETT, ESQ., B.A., B.E., M.I.E.E.
P. BRÜHL, ESQ., M.I.E.E., F.G.S., F.C.S.
DR. T. H. HOLLAND, F.R.S., F.G.S., A.R.C.S., D.Sc.
THE HON'BLE MR. JUSTICE SYED SURFUDDIN.
H. STEPHEN, ESQ., M.A.
SHAMS-UL-ULAMA MIRZA ASHRUF ALI.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE LALMOHAN DAS, M.A., B.L.
REV. J. LAMB, M.A., B.D.
LT.-COL. F. J. DRURY, M.B., I.M.S.
DR. P. C. RAY, D.Sc., Ph.D.
MAULAVI SYED SHAMSUL HUDA, M.A., B.L.
MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., Ph.D.
DR. HEMCHANDRA SEN, M.D.
REV. R. F. PEARCE, M.A.
J. A. CUNNINGHAM, ESQ., B.A., F.C.S., A.R.C.S.I.
DR. G. THIBAUT, C.I.E., Ph.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
LT.-COL. D. C. PHILLOTT, I.A.
REV. J. MITCHELL, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.

380. The Minutes of the Senate, dated the 22nd February, 1908, were confirmed.

381. Mr. Küchler moved, on behalf of the Syndicate, that under section 12, Chapter XVIII of the Regulations, affiliation be withdrawn from St. Joseph's College, North Point, Darjeeling, on the ground that its further affiliation to this University is not desirable, as there are at present no University classes in the abovenamed College.

The motion which was seconded by Rai Chunilal Basu, Bahadur, was put and agreed to.

382. A letter from His Honour the Rector of the University, which was previously circulated to the Members of the Senate, having been taken as read, the Hon'ble the Vice-Chancellor moved that a vote of thanks be passed by the Senate for the munificent gift of two lakhs and half to the University by the Maharaja Sir Rameswar Singh, Bahadur, of Darbhanga, for the building of a Library.

Dr. P. K. Ray seconded the motion, which was carried by acclamation.

383. On a motion by Principal N. N. Ghose, seconded by Principal Herambachandra Maitra, the undermentioned candidates were permitted to appear at the ensuing M.A. Examination as non-collegiate students :—

Charuchandra Raychaudhuri, Sureschandra Lahiri, Manindranath Mitra, Kisorimohan Maitra, Rajendrakumar Datta, Subodhchandra Chatterjee, Syamapada Bhattacharyya, Suraschandra Dasgupta, Nripendrachandra Basu, Anilkumar Sarkar, Muhammad Anamullah Khan, Kamalnath Gupta, M. R. Bobde, Manoranjan Mitra, Nilananda Chatterjee, Anandamay Dhara, Niranjan Banerjee, Dwijendranath Mitra.

384. Principal A. Tomory moved, on behalf of the Syndicate, that Mrs. Sushama Maitra be permitted to appear at the ensuing B.A. Examination as a non-collegiate student.

The motion, which was seconded by Professor Gaurisankar De, was carried.

385. Principal H.R. James moved that, as recommended by the Syndicate, Suryyakumar Majumdar be permitted to appear at the ensuing B.A. Examination as a teacher.

Professor Adharchandra Mukerjee seconded the motion which was carried.

386. Professor J.A. Cunningham moved, and Professor Gaurisankar De seconded, that Nareschandra Sen be permitted to complete his six months service as a teacher by the 2nd of March, 1908, with a view to enable him to appear at the ensuing B.A. Examination.

The motion was agreed to.

387. Principal J. N. Dasgupta moved that the following recommendation of the Syndicate be adopted :—

"That Ashraf Ali Khan, Sub-Inspector of Schools, Dhamnagar Circle, Balasore, be permitted to appear at the ensuing F.A. Examination as a non-collegiate student."

Principal A. Tomory seconded the motion, which was carried.

388. On a motion by Principal Herambachandra Maitra, seconded by Dr. Hemchandra Sen, it was resolved that

the following candidates be permitted to appear at the forthcoming F.A. Examination as teachers :—

Atulchandra Bhattacharyya, Chandramani Das Gholam Akbar, Prabhashchandra Mitra, Makhanlal Ray, J. Kelly.

389. The Hon'ble Babu Debaprasad Sarbadhikari moved, on behalf of the Syndicate, that Rebatimohan Haldar be permitted to complete his six months' service as a teacher by the 18th of March, 1908, with a view to make himself eligible for admission to the ensuing F.A. Examination.

Principal Herambachandra Maitra seconded the motion which was carried.

390. Dr. Suresprasad Sarbadhikari moved that the following recommendation of the Syndicate be adopted :—

That Nagendranath Chatterjee who passed the First M.B. Examination in 1904 and the Second L.M.S. Examination in 1906, and who is now employed as a House Physician in the Calcutta Medical College, be permitted to appear at the ensuing Second M.B. Examination without further attendance at lectures.

The motion which was seconded by Rai Chunilal Basu, Bahadur, was carried.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

G. THIBAUT, *Registrar.*

The University of Calcutta & Acharya P C Ray 1906-1944

Minutes of the Faculties of Arts & Science

(PROCEEDINGS OF A JOINT MEETING.)

FOR THE YEAR 1908.

No. 1.

THE 11TH APRIL, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D. Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

SIR GOOROO DASS BANERJEE, Kt., M.A., D.L., Ph D.
BABU GAURISANKAR DE, M.A., B.L.
N. N. GHOSE, Esq., F.R.S.L.
G. W. KÜCHLER, Esq., M.A.
BABU BIPINBIHARI GUPTA, M.A.
BABU HERAMBACHANDRA MAITRA, M.A
BABU RAMENDRASUNDAR TRIVEDI, M.A.
W. H. ARDEN WOOD, Esq., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAE SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU BAHADUR, M.B., F.C.S.
DR. KEDARNATH DAS, M.D.
DR. C. E. CULLIS, M.A., Ph.D.
REV. A. TOMORY, M.A.
BABU BHAGAVATI SAHAY, M.A., B.I.
P. B. MUKHARJI, Esq., B.Sc., M.R.A.S.
J. N. DASGUPTA, Esq., B.A.
W. H. EVERETT, Esq., B.A., B.E., M.I.E.E.
P. J. BRÜHL, Esq., M.I.E.E., F.G.S., F.C.S.
MAULAVI MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
HARINATH DE, Esq., M.A., M.R.A.S.

LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
BABU NRISINHACHANDRA MUKERJEE. M.A., B.L.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.Sc., Ph.D.
I. H. BURKILL, Esq., M.A., F.L.S.
MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., Ph.D.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
J. A. CUNNINGHAM, Esq., B.A., F.C.S., A.R.C.S.I.
C. W. PEAKE. Esq., M.A.
DR. G. THIBAUT, C.I.E., Ph.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
H. STEPHEN Esq., M.A.
BABU HARIHAR PRASAD SINGH, B.L.
LT.-COL. D. C. PHILLOTT, I.A.
REV. J. MITCHELL, M.A.
BABU CHANDRABHSHAN BHADURI, B.A.
E. VREDENBURGH, Esq., B.Sc., B.L., A.R.S.M., A.R.C.S., F.G.S.

480. The Hon'ble the Vice-Chancellor was voted to the Chair.

481. The business before the joint meeting of the two Faculties was to consider the following Scheme for the award of the Premchand Roychand Research Studentships, recommended by a Committe appointed to revise the existing Scheme :—

1. Six Studentships of Rs. 1,400/- a year each, to be called the Premchand Roychand Research Studentships," shall be maintained on the interest of the endowment.

2. Any graduate of the University of Calcutta, who has passed the Examination for the Degree of Master or Doctor in any Faculty, shall be eligible for only one of these Studentships during twelve years from the time that he passed the Entrance of the Matriculation Examination.

Explanation :—

Any person who passes the Entrance Examination in 1908 and subsequently passes the Examination for the Degree of Master or Doctor in any Faculty, may be a candidate for the Studentship in any year not later than 1920.

3. The Studentships shall be awarded for promotion of research. Each Studentship shall be tenable for three years, during which the student will be required to carry on some special investigation or work in the subject in which the Studentship was awarded.

4. Two Studentships shall, ordinarily, be awarded every year, one in a Literary Subject, the other in a Scientific Subject.

5. The Literary Subjects shall be as follows :—

English, Sanskrit, Pali, the Prakrits and Indian Vernaculars, Arabic, Comparative Philology with special reference to the Oriental languages Indian Palæography and Epigraphy, Indian History, Philosophy, Economics.

The Scientific Subjects shall be as follows :—

Mathematics, Physics, Chemistry, Physiology, Botany, Geology and Mineralogy, Zoology and Comparative Anatomy, Experimental Psychology.

6. Candidates for the Studentships shall submit their applications to the Registrar not later than the 31st October in any year and shall at the same time pay a fee of Rs. 32. Each application shall state (*a*) the academical distinctions which the candidate has obtained, (*b*) the subject in which he has specialised, (*c*) any research or investigation which he has made in the selected subject or in any allied branch of knowledge (*d*) the subject in which he intends, if elected to a Studentship to carry on special investigation or research. Every candidate shall produce a thesis dealing with some subject in which he has carried on or intends to carry on research Every candidate shall also state whether the research or investigation which he intends to undertake will be carried on in any particular Library or Laboratory and, if so, what facilities are available. Every candidate shall further produce along with his application testimonials to satisfy the Syndicate that he is in habits and character a fit and proper person to carry on the research which he proposes to undertake.

7. The Syndicate shall, as soon as possible, after the applications have been submitted, appoint two Special Boards, one to report on the applications in the Literary Subjects, the other to report on those in the Scientific Subjects.

The candidates shall not be required to submit themselves to any written, oral or practical Examination; but either Special Board may, at its discretion, require a candidate to appear before it with a view to ascertain precisely the nature of research or investigation in which he has been previously engaged or which he wishes to undertake, if elected to the Studentship. Each Board shall submit a report, dealing with the applications considered by it The report shall set forth the name and qualifications of the candidate recommended for election to the Studentship, and the grounds for such recommendation.

8. Neither Special Board shall be bound to recommend any candidate if, in their judgment, none of the candidates is qualified to carry on research or investigation, so as to be worthy of the Studentship.

9. The Reports of the Special Boards shall be laid before the Syndicate not later than the 15th of December every year, and if the Syndicate, upon the reports, are satisfied that the candidates

recommended are worthy of the Studentships, they shall make the award accordingly.

10. If, in any year, a Studentship in Literary or Scientific subjects is not awarded on the ground that there is no candidate in that particular group of subjects qualified to receive it, it shall be competent to the Syndicate to award that Studentship in the other group of subjects in the same year or in any subject in any subsequent year.

11. Each Studentship shall be tenable from the month of January and each student shall receive Rs. 50 a month.

Not later than the 31st of October in each year, every student shall submit to the Registrar a detailed statement of the research or investigation in which he has been engaged during the year. If the Syndicate are satisfied that the research or investigation has been duly carried on as undertaken by the candidate in his application so that the object with which the Studentship was awarded has been realised, the student shall receive at the end of the year a sum of Rs. 800.

12. If it is proved to the satisfaction of the Syndicate that a student has undertaken no research or investigation or has abandoned it or has otherwise acted in contravention of the terms upon which the Studentship was granted, they may, at any time, suspend the payment of the monthly stipend.

13. The Syndicate shall, whenever practicable, arrange for the publication of such of the researches of Premchand Roychand Students as may appear to be of special value or excellence.

14. The names of the Premchand Roychand Students, past and present, shall be printed in the Calendar after the names of the Fellows.

15. The Examination for the Studentship under the existing Regulations shall be held for the last time in 1909, and the first award under the new Regulations shall be made in December, 1910.

The Vice-Chancellor gave a short survey of the history of the Premchand Roychand endowment and explained the main features in which the new scheme now proposed differed from the existing one. There would be two scholarships in future, one in Science and one in Literature instead of one as at present—this change being rendered possible by the smaller amount of scholarships proposed and the fact of their being no Examiners' fees under the new scheme. And the new scheme demanded from each candidate the initial submission of a thesis as a guarantee for his capacity to carry on original investigations.

Sir Goordo Dass Banerjee thereupon formally proposed the adoption of the new scheme, which, he pointed out,

directly aimed at the encouragement of original investigation and research and therefore dispensed with the examination on which the award of the studentship had depended hitherto.

In future each candidate would have a chance of doing himself justice, the subject of the thesis depending on his choice and the time for elaborating the thesis not being limited. It was not expected that the work of the future Premchand Students would result in great discoveries of first rate importance ; what the scheme meant to encourage was the traning of new facts possessing some significance or new relations of facts.

The motion was seconded by Mr. Harinath De.

Babu Binayendranath Sen asked for, and obtained, leave to move as an amendment that there should be at the same time four, not six, studentships ; that the yearly value of each stndentship should be Rs. 2100, and that each studentship should be tenable for two years.

The amount proposed under the new scheme, was not, he thonght, high enough to attract the most distinguished students of the University.

Mr. James seconded the amendment.

If two scholars, he said, were appointed annually, the studentship would lose that character of "uniqueness" which it had possessed hitherto.

Mr. Cunningham opposed the amendment. One of the main drawbacks of the old scheme, he said, was the difficulty to select the one most meritorious man from among the candidates. It therefore would be better to distribute the benefits of the endowment more widely. And a longer period than the one allowed hitherto was required for thoroughness of Research.

Sir Gooroo Dass Banerjee dwelt on the difficulty experienced under the old scheme of weighing and striking the balance between, the merits of several candidates who had taken up different subjects.

The Vice-Chancellor explained that a tenure of the studentships for three years was advocated because under the new Regulations the degree of Doctor of Philosophy or

Science was attainable three years after the candidate's passing the M. A. Examination. Under the new scheme distinguished M. A.'s might avail themselves of the Premchand Roychand Studentship to carry on that research work which later on would quality them for the Doctor's degree.

The amendment on being put to the vote was lost.

An amendment proposed by Col. Lukis, viz., that in para 5 of the new scheme "Zoology including Proto-Zoology" should take the place of "Zoology" was adopted.

The original motion, viz., that the scheme proposed by the Committee, as now amended, be recommended to the Senate for acceptance, was thereupon put to the vote and carried.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

G. THIBAUT, *Registrar.*

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1908.

No. 8.

THE 11TH APRIL, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.,
Vice-Chancellor, in the Chair.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L.,
BABU GAURISANKAR DE, M.A., B.L.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
N. N. GHOSE, Esq., F.R.S.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
SHAMS-UL-ULAMA AHMAD.
G. W. KUCHLER, Esq., M.A.
BABU BIPINBIHARI GUPTA, M.A.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. KEDARNATH DAS, M.D.
DR. E. D. ROSS, Ph.D.
H. R. JAMES, Esq., M.A.
REV. R. GEE, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
BABU BHAGAVATI SAHAY, M.A., B.L.
P. B. MUKHARJEE, Esq., B.Sc., M.R.A.S.
J. N. DASGUPTA, Esq., B.A.
W. H. EVERETT, Esq., B.A., B.E., M.I.E.E.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRUHL Esq., M.I.E.E., F.C.S., F.G.S.

MAULAVI MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
HARINATH DE, Esq., M.A.
SHAMS-UL-ULAMA MIRZA ASHRUF ALI.
LT.-COL. C.S. LUKIS, M.D. F.R. C.S., I.M.S.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE LALMOHAN DAS, M.A., B.L.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D. Sc., Ph.D.
I. H. BURKILL, Esq., M.A. F.L.S.
MAHAMAHOPADHYAY Dr. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., Ph.D.
DR. HEMCHANDRA SEN, M.D.
REV. R. F. PEARCE, M.A.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
Dr. N. ANNANDALE, B. A., D. Sc.
J. A. CUNNINGHAM, Esq., B.A., F.C.S, A. R C.S.I.
C. W. PEAKE, Esq., M.A.
Dr. G. THIBAUT, C.I.E., Ph.D. D.Sc.
BABU BINAYENDRANATH SEN, M.A.
H. STEPHEN, Esq., M.A.
BABU HARIHAR PRASAD SINGH, B.L.
LT.-COL. D. C. PHILLOTT, I.A.
REV. J. MITCHELL, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.

482. Professor J. A. Cunningham moved that the following Scheme recommended by the Syndicate for utilizing the Guruprasanna Ghosh's legacy be adopted :—

1. Not less than three Scholarships, each to be called "The Guruprasanna Ghosh Scholarship" shall be maintained out of income of the endowment. Each Scholarship shall be tenable for three years, and one appointment shall be made annually. A Scholarship, if tenable in Japan, will be of the annual value of Rs. 1000 ; if tenable in Europe or America, of the value of Rs. 2,000.

2. Candidates for the Scholarships must, under the terms of the Will of the founder be "pure natives of Bengal" and "preference shall always be given to Hindus."

3. Applications for the Scholarships shall be submitted to the Registrar not later than the 1st of August every year. If an applicant has not already passed the Intermediate Examination in Science of this University, or the Final Examination of a recognised School of Art, or Technical or Agricultural College, he must produce with his application proof that he has attained a knowledge of English and Mathematics up to the standard of

the Matriculation Examination and of Physics and Chemistry up to the standard of the Intermediate Examination in Science.

Any person who intends to be a candidate for these Scholarships, may be examined upon payment of a fee of Rs. 2 for each subject, in English and Compulsory Mathematics in the papers set at the Matriculation Examination and in Physics and Chemistry in the papers set at the Intermediate Examination in Science; and if he attains the minimum standard laid down in the Regulations in all or any of the subjects in which he is examined, he shall be entitled to receive a certificate accordingly.

4. Candidates for the Scholarships must have completed 18 years on the 1st March in the year in which they apply.

5. The application of every candidate must set forth precisely the institution in Europe, America, or Japan in which, if elected to the Scholarship, he intends to study, as also the particular branch of Agriculture or the Arts, Science, and Industries of Europe, America, or the East in which he desires to specialize.

6. Candidates for the Scholarships shall submit to the Registrar along with their applications—

(*a*) Certificates of their good conduct, from persons of respectability and position with whom they may be acquainted.

(*b*) Certificates of their physical capacity to undergo the course of life and study which they will have to follow in the country to which they intend to proceed, signed or countersigned by a medical man holding a degree or diploma of a recognised British or Indian University or Licensing body.

Candidates must also state whether they have the consent of their families to proceed to Europe, America, or Japan.

7. The applications shall, in the first instance, be considered by a Committee of the Syndicate, consisting of the Vice-Chancellor and three other Members, upon whose reports the Syndicate shall, not later than the 1st September in any year, award the Scholarship to that one among the candidates who is best qualified to promote the object of the founder.

8 The Syndicate may contribute towards the expenses of the passage of the selected scholar, such amount as the state of the funds may permit. The Syndicate may also, whenever practicable, contribute towards the return passage of any scholar who has specially distinguished himself in his studies.

9. Every scholar shall, within four weeks of his arrival at the selected place of study, forward a report to the Registrar, countersigned by the proper authorities, showing (*a*) the course of study he proposes to follow. (*b*) the arrangement made for his residence, supervision and control. Any departure from the conditions of study and residence thus reported shall be duly intimated by the scholar for the approval of the Syndicate.

10. Every scholar shall, at the end of each term at the Institution where he prosecutes his studies, forward to the Registrar

a certificate from the proper authorities, showing that his residence, conduct, and progress in study have been satisfactory during the term. The continuance of the Scholarship shall depend upon the regular production of such certificate.

11. Every scholar will be liable to forfeit his Scholarship, who not being disabled by illness or prevented by any other cause which the Syndicate may deem sufficienn fans to complete his studies for three years (in accordance with the terms and conditions, set out in his application). If a Scholarship be forfeited, the scholar will be further liable to refund the amount, if any, contributed for his passage.

12. Subject to due compliance with the above conditions, the allowance will be forwarded quarterly in advance, by the Registrar free of all charges to the chief Controlling authority of the Institution where the scholar prosecutes his studies for payment to him.

13. The Senate may, at any time, upon the recommendation of the Syndicate, alter these Rules, consistently with the terms of the Will of the founder, but not so as to prejudice the holder of any Scholarship already awarded.

Principal A. Tomory seconded the motion which was carried unanimously.

483. On a motion by Professor C. W. Peake, seconded by Rai Chunilal Basu, Bahadur, the undermentioned candidates were permitted to appear at the ensuing M.A. Examination as non-collegiate students :—

Biswas, Sarojkumar.
E. S. Sundarram Aiyar.
Gangopadhyay, Debendranath.
" Girindranath.
Ray, Rajaninath.
Sarma, Brajadayal.
Sen, Purnachandra.
Sengupta, Nirmalchandra.
Sridhar Ramchandra Gokhale.

484. Mr. Harinath De moved, on behalf of the Syndicate, that Babu Dineschandra Sen, B.A., be appointed University Reader and that the subject of his lectures be the History of the Bengali Language and Literature from the earliest times down to the middle of the 19th century.

Professor Gaurisankar De seconded the motion which was carried.

485. The Senate then proceeded to consider the recommendation of the Syndicate that the following Scheme for the award of the Jubilee Research Prizes be adopted :—

1. In commemoration of the Jubilee of the University, Prizes shall be instituted for the promotion of research by its graduates.

2. Out of the University Reserve Fund, a sum of Rs. 30,000 (thirty thousand) shall be set apart and called the Jubilee Research Prize Fund.

3. Out of the income of the aforesaid Fund, two prizes shall, ordinarily, be awarded every year. Each prize shall consist of a gold medal worth Rs. 250 and a sum of Rs. 250 in cash.

4. One prize shall be awarded for Research in Arts subjects and another for Research in Scientific subjects. The Arts subjects include Literature, Oriental languages, Philology, Archæology, History, Economics, Philosophy, and cognate branches of knowledge. The Scientific subjects include Pure and Applied Mathematics and the different branches of Natural and Physical Science.

5. Not later than the 30th of June in every year, the Syndicate shall determine, in consultation with experts, and announce two subjects one in Arts and one Scientific, in which the prizes shall be awarded in the second year following that in which the announcement is made. The announcement shall specify, as accurately as practicable, the particular problem or class of problems in which Research is invited.

6. The prizes shall be open to all persons who have at any time been admitted to a degree in this University.

7. Every thesis shall be sent privately to the Registrar not later than the 30th June in the year next but one succeeding that in which the subjects are announced. Every thesis shall bear a motto but not the name of the candidate, and shall be accompanied by a sealed envelope bearing the same motto outside and containing inside the name and address of the candidate.

8. Every candidate shall indicate generally in a preface to his thesis and specially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others and the portions of the thesis which he claims as original; he shall further state whether his research has been conducted independently, under advice, or in co-operation with others, and in what respects his investigations appear to him to tend to the advancement of knowledge.

9. As soon as may be after all the theses have been received, the Syndicate shall have them adjudged by Boards of Experts: there shall be one Board for the theses on the Arts subjects and another for those on the Scientific subjects. It shall be an instruction to the Boards not to recommend any thesis for a prize unless it exhibits a sufficient standard of excellence.

The University of Calcutta & Acharya P.C.Ray 1906-1944

10. Not later than the 30th September in every year, the Syndicate shall, upon the reports of the Boards, (which shall be published in the Minutes) award the prizes.

11. If, in any year, it is reported that there is no thesis worthy of either of the prizes, the prize shall not be awarded, and a prize not so awarded may, at the discretion of the Syndicate, be awarded in the same or in any subsequent year to the uthor of a thesis upon any subject which may be declared worthy of the prize by the Board of Examiners.

12. Any Board of Examiners shall be at liberty, in recommending a particul thesis for a prize, to include in their reports the names of any other theses which, in their opinion, deserve considerable praise or commend lion.

13. Every candidate shall be at liberty to publish his thesis and the thesis of every successful candidate shall be published by the University. The Syndicate may also at its discretion, publish any thesis which has been specially commended.

14. The first announcement of the subjects for the prizes shall be made before the 30th June, 1908 and the first award shall be made not later than the 30th September, 1910.

Professor J. A. Cunningham moved that the Scheme be adopted, and Mr. Harinath De seconded the motion.

Professor P. J. Brühl thereupon asked permission to substitute for the first of four amendments standing in his name, the following amendment :—

"That in para 3 for the words 'Each prize shall..... Rs. 250 in cash' the following be substituted 'Each prize shall consist of a gold Medal of the value of Rs. 150 and a sum of Rs. 350 in cash'."

Research, Prof. Brühl remarked, often involved considerable expense, in books, instruments and the like, and he therefore considered it equitable that the winner of the prize should have a considerable portion of the prize in cash.

The amendment was seconded by Dr. Sarbadhikari, put to the vote and carried.

Professor Brühl next proposed the following amendment :—

That for para 5 the following be substituted—

"Not later than the 1st of March in every year the Syndicate shall invite the Members of the Senate to make suggestions with reference to definite problems which

they consider to be suitable subjects for investigation, such suggestions to reach the Registrar not later than the 31st of May. It shall be the duty of each Member who makes suggestions to show that it is possible to carry out the suggested research within the time allowed and with the means available in this country. Not later than the 30th of June in every year the Syndicate shall determine two main subjects, one in Arts and one in Science from which the subjects for the theses are to be chosen, and announce the special problem or problems in those subjects which have been suggested by Members of the Senate and for which prizes shall be awarded in the second year following that in which the announcement is made."

In proposing this amendment Professor Brühl pointed out that wherever learned Institutions were in the habit of proposing subjects for theses, great difficulty was frequently experienced in selecting a fair number of suitable subjects, and that hence it was advisable to invite suggestions from a wide circle.

After some discussion Professor Brühl agreed to the proposal that para 5 should be worded as follows :—

"Not later than the 1st of March in every year, the Syndicate shall invite the Members of the Senate to make suggestions with reference to definite problems which they consider to be suitable subjects for investigation, such suggestions to reach the Registrar not later than the 31st of May. It shall be the duty of each Member who makes suggestions to show that it is possible to carry out the suggested research with the means available in this country. Not later than the 30th of June in every year, the Syndicate shall determine and announce two subjects, one in Arts and one Scientific, in which the Prizes shall be awarded in the second year following that in which the announcement is made. The announcement shall specify as accurately as practicable the particular problem or class of problems in which Research in invited."

The amendment in this modified form was duly seconded, put to the vote, and carried

Professor Bruhl next proposed the following amendment :—

The University of Calcutta & Acharya P.C.Ray 1906-1944

That para 8 be read as follows:—"Every candidate shall state whether his research has been conducted independently, under advice, or in co-operation with others."

Para 8 as standing in the Scheme proposed did not, Professor Brühl remarked, sound well. It appeared to insist on things which were a matter of course and might give rise to the impression that the obvious conditions of research were not understood at Calcutta

Upon the Vice-Chancellor pointing out that para 8 merely reproduced expressions to be met with in the Regulations in several places, *e. g.* in connection with the conditions to be complied with by candidates for a Doctor's degree, Professor Brühl withdrew his amendment.

Professor Brühl finally moved the following amendment :—

That in para 9 the words 'by Boards of Examiners' be substituted for 'by Boards of Experts.'

This amendment was duly seconded, put to the vote and carried.

The motion that the Scheme subject to the above alterations be adopted, was thereupon put to the vote, and carried.

486. Professor Cunningham moved that the Senate accept the following Scheme for the appointment of a University Professor of Economics, as recommended by the Syndicate :—

1. The duties of the Professor of Economics shall be as follows :—

(*a*) To devote himself to the investigation of the Science of Economics and its application to Indian Problems.

(*b*) To deliver (not less than once a week during twelve weeks every year) a course of at least twelve lectures upon Economics, with special reference to Indian problems and embodying, as far as possible, the result of his own researches in the subject (such lectures, after delivery, shall be published by the University).

(*c*) To hold classes in Economics not less than twice a week during at least twenty-five weeks every year, for the benefit of post-graduate students and to promote research by them as far as practicable.

(*d*). To prepare a work dealing with the application of the Principles of Political Economy to Indian topics. (The limits of the subjects to be generally those indicated in the syllabus prescribed for the Examination for the Degree of Bachelor of Arts).

2. The Professor shall, in the first instance, be appointed for a term of five years, but upon the expiry of his term shall be eligible for re-appointment.

3. The salary of the Professor shall be Rs. 9,000 a year to be paid in equal monthly instalments.

4. The balance of the Annual Government grant Rs. 1000, shall be applied to the publication of the lectures delivered by the Professor under Rule 1, clause (*b*).

5. As soon as practicable after the Scheme for the Professorship has been approved by the Senate, the Syndicate shall invite applications by public advertisement.

6. Candidates for the Professorship shall submit their applications not later than the 1st December, 1908. Every application shall be accompanied by—

(*a*) A statement of the original work or investigation in Economy which may have been done by the candidate.

(*b*) Testimonials to indicate special fitness for appointment as a Professor of Economics.

(*c*) A syllabus of the courses of lectures which the candidate would, if appointed to the Professorship, deliver during the first two years of the term of office.

7. Canvassing by intending candidates for the Professorship is strictly prohibited; and if any candidate is proved to have canvassed for the appointment directly or indirectly, he shall, on that ground alone, be disqualified.

8. The applications from candidates shall, in the first instance, be considered by a special Board consisting of the Hon'ble the Vice-Chancellor and four other Members nominated by the Syndicate. The Board shall scrutinize the applications and report thereon to the Syndicate. The Syndicate shall then recommend to the Senate that one amongst the candidates who in their opinion is best qualified for the Professorship.

9. The appointment shall be made by the Senate at the Annual Meeting in 1909 when the applications of all candidates together with the report of the special Board and the proceedings of the Syndicate shall be laid before the Senate.

10. The Professor, elected by the Senate and approved by the Governor-General in Council, under section 9, Chapter X of the Regulations, shall undertake the performance of the duties of his office not later than the first November, 1909. Upon his failure to do so, the Senate shall be at liberty to cancel the appointment.

The University of Calcutta & Acharya P.C.Ray 1906-1944

11. The copyright in the Lectures as well as the Treatise [Sec. 1 (*b*) and (*d*)] shall be in the Professor, but he shall make over to the University 200 copies of his lectures annually for distribution.

The motion was seconded by Mr. Harinath De.

The meeting accepted a verbal emendation suggested by Sir Gooroo Dass Banerjee, viz., that in para 6 (*a*) of the Scheme for the words, 'for appointment as a Professor of Economics' there be substituted 'for appointment to the Professorship of Economics.'

The Vice-Chancellor next requested and obtained leave to move as an amendment that the Professorship of Economics be termed 'the Minto Professorship of Economics.' That the Professorship had been established at all, the Vice-Chancellor remarked, was largely due to the warm personal interest taken in the matter by His Excellency the Viceroy.

The amendment was put to the vote and carried.

The original motion, as amended, was then put and carried.

487. Mr. Küchler moved that, as recommended by the Syndicate, Bishnupada Banerjee, Priyanath Jeardar, Sisirkumar Maitra and Haridas Biswas be admitted to the B. A. Examination as non-collegiate students.

Mr. Harinath De seconded the motion which was carried.

488. Principal Herambachandra Maitra moved, on behalf of the Syndicate, that Muhammad Husain, B.A., who is at present employed as a clerk in the office of the Director-General of Post Offices, be admitted to the M.A. Examination in Persian as a non-collegiate student.

The motion was seconded by Maulavi Serajúl Islam, Khan Bahadur, and carried.

489. Principal Tomony moved that Syed Fazul Hosain, B.A. (Allahabad), be permitted to appear at the M. A. Examination of this University as a non-collegiate student.

The motion which was duly seconded, was carried.

490. The Registrar laid before the meeting the following letter :—

No. 286.

FROM

SIR HAROLD STUART, K.C.V.O., C.S.I.,

Offg. Secretary to the Govt. of India.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

(THROUGH THE HON'BLE THE RECTOR)

Simla, the 30th March, 1908.

Home Department
(Education.)

SIR,

I am directed to state for the information of the Syndicate and Senate of the Calcutta University that the Governor-General in Council has been pleased to re-appoint the Hon'ble Mr. Justice Asutosh Mukerjee, M.A., D.L., D.Sc., F.R.A.S., F.P.S.E, to be Vice-Chancellor of the University.

I have etc.,

(Sd.) H. A. STUART,

Offg. Secretary to the Govt. of India.

It was resolved that the letter be recorded.

Principal Tomory said that the Senate must not allow this opportunity to pass without giving expression to their high appreciation and admiration of the services rendered to the University by its present Vice-Chancellor. His labours in the cause of reconstitution and progress had been truly Herculean; and the speaker was sure that he had the Senate with him in expressing the hope that it would be given to the Vice-Chancellor to carry on his work during his new term of office with unimpaired health and vigour.

Principal Tomory's remarks were received by the meeting with acclamation.

The Vice-Chancellor thanked the meeting for this expression of good will and appreciation of his labours on behalf of the University, and said that he gratefully acknowledged to what degree his work had been lightened and helped by the effective and ungrudgingly given co-operation of his colleagues and the entire Senate.

(Confirmed

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

G. THIBAUT, *Registrar.*

University of Calcutta.

MINUTES

FOR THE YEAR

1908.

PART VI.

Calcutta:
PRINTED AT THE HARE PRESS
1909

The University of Calcutta & Acharya P.C.Ray 1906-1944

in reply to this Office letter No. 1752, dated the 28th September, 1908, that under section 24, sub-section (5) of the Indian Universities Act, 1904 (VIII of 1904), the Government of India are pleased to order that with effect from June, 1909, the Diamond Jubilee College, Monghyr, shall be disaffiliated in all subjects except the following, on the ground that the College is not qualified under the University Regulations to impart instruction in any subject other than those specified :—

Intermediate Examination in Arts.

English ; Vernacular Composition ; Sanskrit ; Persian ; Logic ; History ; Mathematics.

ORDERED—

That the letter be recorded and a copy of it be forwarded to the authorities of the College for information.

ORDERED ALSO—

That the affiliation of the College as restricted in the above letter be notified in the *Gazette*.

2205. Read a letter from the Chief Secretary to the Government of Eastern Bengal and Assam, requesting that in view of the facts therein set forth copies of the lists of successful candidates at the University Examinations may be supplied to the Superintendent of Government Press in Shillong for publication in the Eastern Bengal and Assam Government Gazette in the same manner as they are supplied to the Gazette of India and the Calcutta Gazette.

ORDERED—

That an arrangement be made with the Superintendent of the Calcutta Gazette for the supply of a final press proof of the list of successful candidates at the University Examinations to the Superintendent of the Government Press in Shillong for publication in the Gazette of Eastern Bengal and Assam.

2206. Read a letter from Professor J. A. Cunningham, M.A., F.C.S., A.R.C.S.I., suggesting that a circular may be sent to the Principal of every affiliated College inviting

their Professors of Physics and Mathematics to attend the lectures to be delivered by Dr. G. T. Walker, D.Sc., F.R.S., University Reader in Physics; also proposing that the Directors of Public Instruction concerned may be requested to grant permission to all Science Professors to come to Calcutta to attend these lectures.

RESOLVED—

That the suggestion be accepted.

2207. Read a letter from Professor E. P. Harrison, Ph.D., submitting for the consideration of the Syndicate a note on the advantages of acetylene gas as a heating agent in the Chemical and Physical Laboratories of small Mufassil Colleges and suggesting that a considerable economy may be effected by substituting an Acetylene Gas Plant for the costly and elaborate Mansfield out-fit.

ORDERED—

That copies of the letter be circulated to the Heads of Colleges in the Mufassil teaching up to the Intermediate standard.

2208. Read a letter from the Director of Public Instruction, Bengal, forwarding certain papers having reference to the establishment of a Training College for teachers in Behar and requesting that the Patna Training College may be affiliated to the University up to the standard of the Examination for Licentiate in Teaching with effect from the current session. Also requesting that in the circumstances set forth in his letter the Syndicate may be moved to fix the date of the ensuing L.T. Examination about the middle of April, 1909, and to appoint Patna as a centre for holding the Examination of Hindi and Urdu speaking candidates.

RESOLVED—

That Rev. J. Lamb, M.A., B.D., and Mr. E. L. Preston, M.A., be appointed to inspect the College and favour the Syndicate with their report.

RESOLVED ALSO—

That Patna be appoinbed a centre for holding the L.T.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Examination and that the Examination be held on the 3rd Monday in April next and following days.

2209. Read a letter from the Secretary, City College Council, making certain observations with regard to the allegations made in a confidential report from the Government of Eastern Bengal and Assam against Babu Lalitmohan Das, a Professor of the College.

ORDERED—

To be deferred.

2210. The Director of Public Instruction, Bengal, stated that the Law classes in the Presidency College had been discontinued many years ago and that Government had no intention of starting these classes afresh.

The Hon'ble Mr. Debaprasad Sarbadhikari thereupon moved that under section 12, Chapter 18 of the University Regulations read with section 24 of the Indian Universities Act, 1904, the affiliation of the Presidency College in Law up to the B. L. standard be withdrawn with effect from June, 1909, on the ground that the Law classes in the College have been closed and that there is no intention on the part of the Government to re-open these classes.

RESOLVED—

That a copy of the motion be forwarded to the Director of Public Instruction, Bengal, with the intimation that the Syndicate are prepared to accept the motion and that the representation, if any, which he may wish to make with regard to the motion will be duly considered by the Syndicate provided it reaches them within a fortnight of the date of receipt of this communication, after which they will proceed to make their report to the Senate.

2211. Read a confidential letter from the Chief Secretary to the Government of Eastern Bengal and Assam, forwarding for the information of the Hon'ble the Vice-Chancellor and the Syndicate a copy of the proceedings of a meeting of the Managing Committee of the Pirozpur High English School held on the 13th August last, and stating that the Government has had no information up to the present moment as to the steps, if any, taken by the Committee to reconstitute itself, but that on the

contrary the tone of the Resolution suggests that the Committee has adopted a defiant attitude in the matter of the University's recommendations.

ORDERED—

That Dr. P. K. Ray be instructed to visit the School and to report on its present condition generally and with special reference to its resources and the extent to which it is in a position to meet the requirements of the new Regulations.

2212. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, reporting that this Office letter No. 1365, dated the 27th August, 1908, regarding the College and School departments of the Brajamohan Institution, Barisal, has been referred to the Government of the Province, and stating that he will soon be in a position to address the Syndicate upon the subject.

ORDERED—

To be recorded.

2213. Read a letter from the Principal, Scottish Churches College, stating that in view of the fact that the Arts Courses have been generally lengthened under the new Regulations and that longer time is necessary to cover them, the Senatus of the College have decided to continue the courses of lectures until the 19th of February, and requesting that in the circumstances the last date for the submission of applications and fees from eligible students for the ensuing Intermediate and B. A. Examinations may be extended to the 27th of February.

ORDERED—

That in the circumstances set forth in the letter, the Principal of the Scottish Churches College be authorised to send in the applications and fees of candidates from his College for the ensuing Intermediate and B. A. Examinations on or before the 22nd February next.

2214. Read a letter from the Head Master, National Institution, Chittagong, requesting that in the circumstances therein set forth the Syndicate may be pleased

The University of Calcutta & Acharya P.C.Ray 1906-1944

to reconsider their order on the subject of the amalgamation of the above-named School with the Chittagong H. E. School as communicated in this Office letter No. 500, dated the 25th July, 1908.

ORDERED—

That a copy of the letter be forwarded to the Director of Public Instruction, Eastern Bengal and Assam, for favour of his opinion.

2215. Read a letter from the Head Master, Gokarna Prasannamayee H. E. School, forwarding for the information of the Syndicate a copy of the remarks made by the Assistant Inspector of Schools, Presidency Division, on the inspection of the School on the 26th November last.

ORDERED—

To be recorded.

2216. Read a letter from the Inspector of Schools, Chota Nagpur Division, recommending that St. Paul's High School, Ranchi, may be authorised to teach Elementary Mechanics for the Matriculation Examination in accordance with the new Regulations.

RESOLVED—

That St. Paul's High School, Ranchi, be authorised to teach Elementary Mechanics for the Matriculation Examination.

2217. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, returning an application from the Secretary, Yusuff High School, Comilla, and stating that as all the necessary apparatus has not yet been purchased, he cannot recommend the School for recognition in Geography at this stage.

ORDERED—

That the Secretary, Yusuff High School, be informed that permission to teach Geography cannot be granted to the School until it is provided with all the apparatus and appliances prescribed by the University for the purpose.

2218. Read an application from Kirankumar Sengupta, M.A., B. Sc., Post-Graduate Research Scholar in Geology, requesting permission to submit his thesis for the Ph.D. and D. Sc. Degree Examinations in Geology in 1909 and inquiring whether one thesis will be deemed sufficient for both the Doctorate Degrees and whether he will be permitted to sit for both the Examinations in the same year on payment of a single fee.

ORDERED—

That the applicant be informed that under the new Regulations of the University he may come up for the Ph. D. but not the D. Sc. degree.

2219. Read applications from the undermentioned candidates requesting permission to appear at the M.A. Examination in 1909 as non-collegiate students :—

Atalbihari Datta.
Panchanan Das.
Satischandra Bhar.
Naliniranjan Chattopadhyay.
G. B. Venkatarama Iyer.
Birendrakumar De.

RESOLVED —

That the Syndicate recommend to the Senate that Atalbihari Datta, Panchanan Das, Satischandra Bhar, Naliniranjan Chattopadhyay and Birendrakumar De be permitted to appear at the M. A. Examination in 1909 as non-collegiate students.

ORDERED—

That G. B. Venkatarama Iyer be informed that he may proceed to the M.A. Examination of this University after prosecuting a regular course of study for 2 years in a College affiliated to it.

2220. Read an endorsement from the Principal, Patna College, forwarding an application from Chandrabhushan Ray, who has been serving in the Patna College as a Laboratory Assistant since July last, requesting permission to appear at the ensuing M.A. Examination in Chemistry as a non-collegiate student.

The University of Calcutta & Acharya P C.Ray 1906-1944

RESOLVED—

That the Principal, Patna College, be informed that as required by the Regulations, the applicant must serve as Laboratory Assistant for three years and produce a certificate showing that he has taken the prescribed practical course in Chemistry in an affiliated College in order to be eligible for admission to the M.A. Examination in the subject.

2221. Read an application from D. B. Kamat, B.A. (Allahabad), requesting permission to appear at the M.A. Examination of this University as a non-collegiate student.

ORDERED—

That the application be refused.

2222. Read an application from Subodhchandra Sen, who has been serving as a *bona-fide* teacher for the last three years, requesting permission to appear at the ensuing Intermediate Examination in Arts as a teacher.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing Intermediate Examination in Arts as a teacher.

ORDERED—

That a copy of the above resolution be forwarded to the applicant with the intimation that if he takes up any of the Scientific subjects he will be required to produce a certificate from the Principal of an affiliated College or from any other person specially authorised by the Syndicate in that behalf, showing that he has attended a course of practical training in the subject in his laboratory.

2223. Read an endorsement from the Principal, Scottish Churches College, forwarding with his recommendation an application from Bhagavat Prasad, who appeared at the last M.A. Examination in Philosophy, but owing to sudden illness could not satisfactorily answer the first paper, praying that his failure on the first day of Examination may be regarded leniently and that his claim for passing the Examination may be judged from the work done by him on the remaining five days of examination.

ORDERED—

That the letter be referred to the Examiners in Philosophy for consideration.

2224. Read a letter from the Principal, Krishnagar College, reporting the circumstances under which he has rusticated for two months Syamapada Maitra, a student of the First-year Intermediate Arts class of the College.

ORDERED—

To be recorded.

2225. The Registrar enquired what fee, if any, student would have to pay who desire to attend the lectures to be delivered by Dr. Pischel, University Reader, on the Prakrit Languages.

ORDERED—

That no fee be charged for attending the lectures to be delivered by Dr. Pischel, and that the same practice be followed in the case of the lectures of Dr. Walker and Sir Thomas Holland, K.C.I.E.

2226. On the results of the last Entrance Examination the Rajkrishna-Kshetramani Scholarships were awarded to Lalitchandra Saha (Cal. 28) of the Bogra Zila School and Makhanlal Mukhopadhyay (Pab. 86) of the Pabna Zila School.

2227. Read an application from Maulavi Qazi Abdur Roof requesting that the fee paid by his nephew, Delawar Ali, for admission to the last M.A. Examination may be refunded as the candidate died before the commencement of the Examination.

ORDERED—

That the fee paid by the deceased be refunded and paid to the applicant.

2228. Read a letter from Maulavi Syed Shamsul Huda, M.A., B.L., Tagore Law Professor for 1902, requesting that a further extension of time for six months be allowed to him to enable him to complete the printing of his lectures.

ORDERED—

That Maulavi Syed Shamsul Huda be requested to send the file copy of his lectures for the inspection of the

Syndicate and that he be also asked to state whether the whole of his manuscript is ready for the press.

2229. Read the following report of the Board of Examiners for the M.D. Examination :—

"We, the undersigned Examiners appointed by the Syndicate, after having carefully examined the Theses submitted by Bidhanchandra Ray do hereby report the same as "highly commended" and we also recommend that he may be permitted to appear at the Examination for the degree of Doctor of Medicine.

(Sd.) NILRATAN SIRCAR.
" LEONARD ROGERS.
" W. V. COPPINGER."

"I concur.
(Sd.) C. P. LUKIS,
Dean of the Faculty of Medicine."

RESOLVED—

That the report be adopted and that the candidate be admitted to the Examination for the degree of M.D.

2230. Read the following report of the Board of Examiners for the M.S. Examination :—

"We, the Examiners appointed by the University, beg to report that in our opinion the thesis submitted by Lalitmohan Banerjee is not of sufficient merit to justify us in recommending that he be permitted to appear at the Examination for the M.S. degree.

(Sd.) ROBERT BIRD.
" C. R. STEVENS."

"I concur
(Sd.) C. P. LUKIS,
Dean of the Faculty of Medicine."

ORDERED—

To be recorded.

(Confirmed.)
ASUTOSH MOOKERJEE, *Vice-Chancellor.*
G. THIBAUT, *Registrar.*

MINUTES OF THE SYNDICATE

FOR THE YEAR 1908.

No. 66.

THE 14TH DECEMBER, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

G. W. KÜCHLER, Esq., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
PRINCIPAL N. N. GHOSE F.R.S.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
B. HEATON, Esq.
PRINCIPAL H. R. JAMES, M.A.
REV. A. TOMORY, M.A.
PRINCIPAL J. N. DAS GUPTA, B.A.
HARINATH DE, Esq., M.A., M.R.A.S.
PROFESSOR J. A. CUNNINGHAM, M.A., F.C.S., A.R.C.S.I.
PROFESSOR C. W. PEAKE, M.A.
PROFESSOR BINAYENDRANATH SEN, M.A.

2231. The Registrar laid before the Syndicate the applications from candidates for the Minto Professorship.

RESOLVED—

That a Committee of five members consisting of the Hon'ble the Vice-Chancellor, Mr. Küchler, Mr. James,

Mr. Tomory and Mr. Das Gupta be appointed to consider the applications and report thereon to the Syndicate.

2232. The Registrar reported that it was necessary to appoint a President of the Students' Residence Committee in the place of Babu Herambachandra Maitra, M.A., who having ceased to be a member of the Senate under the operation of section 1, Chapter II of the Regulations, had to vacate his Presidentship of the above Committee.

RESOLVED—

That Babu Binayendranath Sen, M.A., be appointed a member of the Committee for the remainder of the current year in the place of Babu Herambachandra Maitra and that the Committee be requested to elect their own President.

2233. The Registrar reported that it was necessary to appoint a member of the Board of Accounts in the place of Babu Gaurisankar De, M.A., B.L., who having ceased to be a member of the Senate under the operation of section 1, Chapter II of the Regulations, had to vacate his membership of the above Board.

RESOLVED—

That Babu Haranchandra Banerjee, M.A., B.L., be appointed a member of the Board of Accounts for the remainder of the year in the place of Babu Gaurisankar De, M.A., B.L.

2234. The Registrar reported that at the Supplementary B A. Examination now being held, no questions on Hydrostatics were set in either of the Pass Papers in Mathematics.

RESOLVED—

That the B.A. Board of Examiners be instructed to report to the Syndicate the cases of students who fail in Mathematics only.

2235. Read a letter from Dr. P. C. Ray, D.Sc., Ph.D., stating that, in his opinion, most of the questions in Chemistry set at the Supplementary F.A. Examination now being held, are unusually stiff and that he is afraid the consequence will be a high percentage of failure in the

257

subject at the Examination. Also suggesting that the Papers may be leniently examined and that steps be taken to prevent the recurrence of such variation in the standard of Examination.

RESOLVED—

That the letter be referred to the Board of Moderators for consideration.

Minutes of the Faculty of Science

FOR THE YEAR 1908.

No. 4.

THE 19TH DECEMBER, 1908.

Present:

G. W. KÜCHLER, Esq., M.A., *Dean in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. C. E. CULLIS, M.A., Ph.D.
G. C. BOSE, Esq., M.A., F.C.S.
P. MUKHARJEE, Esq., B.Sc., M.R.A.S.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
P. J. BRÜHL, Esq., M.I.E.E., F.C.S., F.G.S.
DR. P. C. RAY, D.Sc., Ph.D.
J. A. CUNNINGHAM, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. PEAKE, Esq., M.A.
REV. S. L. THOMPSON, B.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, Esq., A.R.C.S., F.C.S.

2246. The Faculty met to elect two Representatives on the Syndicate for the year 1909, one of whom was to be either the Head of or a Professor in some College affiliated to the University.

The following were the names of persons proposed for election :—

Name	*Proposed by*
1. S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.	J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
2. C. W. Peake, Esq., M.A.	S. C. Mahalanabis Esq., B.Sc., F.R.S.E.

RESOLVED UNANIMOUSLY—

That Mr. C. W. Peake, M.A., and Mr. S. C. Mahalanabis B.SC., F.R.S.E., be elected representatives of the Faculty on the Syndicate for the year 1909.

(Confirmed.)

G. W. KÜCHLER, *Dean.*

G. THIBAUT, *Registrar.*

MINUTES OF THE SYNDICATE

FOR THE YEAR 1908.

No. 69.

THE 30TH DECEMBER, 1908.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

G. W. KUCHLER, Esq., M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
H. R. JAMES, Esq., M.A.
REV. A. TOMORY, M.A.
J. N. DAS GUPTA, Esq., B.A.
S. C. MAHALANABIS, Esq., B.Sc. F.R.S.E.
HARINATH DE, Esq., M.A., M.R.A.S.
J. A. CUNNINGHAM, Esq., M.A., F.C.S., A.R.C.S.I.
BABU BINAYENDRANATH SEN, M.A.

2348. The Minutes of the Syndicate, dated the 19th December, 1908, were read and confirmed.

2349. Read the Minutes of the Faculty of Science dated the 19th December, 1908.

ORDERED—

To be recorded.

2350. The Syndicate proceeded to make the necessary recommendations to the Senate as to the constitution of the several Faculties for the year 1909.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties for the year 1909 be constituted as follows :—

FACULTY OF ARTS.

The Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.
The Most Rev. R. S. Copleston, M.A., D.D., Lord Bishop of Calcutta.
G. W. Kuchler, Esq., M.A., Director of Public Instruction, Bengal.
H. Sharp, Esq., M.A., Director of Public Instruction, Eastern Bengal and Assam.
Dr. P. K. Ray, D.Sc.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
H. M. Percival, Esq., M.A.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
N. N. Ghose, Esq., F.R.S.I.
Babu Chandranath Basu, M.A., B.L.
Mahamahopadhyay Haraprasad Sastri, M.A.
Shams-ul-Ulama Ahmad.
C. Little, Esq., M.A.
Babu Ramendrasundar Trivedi, M.A.
M. E. duS. Prothero, Esq., M.A.
The Hon'ble Babu Dobaprasad Sarbadhikari, M.A., B.L.
W. H. Arden Wood, Esq., M.A., F.C.S., F.R.G.S.
Rev. E. M. Wheeler, M.A.
Babu Adharchandra Mukerjee, M.A., B.L.
H. Stephen, Esq., M.A.
C. E. Cullis, Esq., M.A., Ph.D.
E. D. Ross, Esq., Ph.D.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
Babu Brajendranath Sil, M.A.
H. R. James, Esq., M.A.
Rev. R. Gee, M.A
Rev. A. Tomory, M.A.
Babu Bhagabati Sahay, M.A., B.L.
Babu Surendranath Banerjee, B.A.
J. N. Das Gupta, Esq., B.A.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Rai Trailokyanath Banerjee, Bahadur.
Khan Bahadur Maulavi Muhammad Yusoof, B.L.
Rev. Father A. Neut, S.J.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Harinath De, Esq., M.A.
Shams-ul-Ulama Mirza Ashruf Ali.
Babu Nrisinhachandra Mukerjee, M.A., B.L.
Rev. J. Lamb, M.A., B.D.
P. C. Ray, Esq., D.Sc., Ph.D.
T. Bloch, Esq., Ph.D.
Manmohan Ghose, Esq., B.A.

Mahamahopadhyay Satischandra Acharyya, M.A., Ph.D.
Rev. R. F. Pearce, M.A.
J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. Peake, Esq., M.A.
The Hon'ble Mr. F. A. Slacke, B.A., C.S.I.
G. Thibaut. Esq., C.I.E., Ph.D., D.Sc.
Babu Binnyendranath Sen, M.A.
Babu Harihar Prasad Singh, B.L.
Lt.-Col. D. C. Phillott, I.A.
Rev. S. L. Thompson, B.A.
Babu Haranchandra Banerjee, M.A., B.L.
A. Earle, Esq., C.I.E., I.C.S.
F. C. Turner, Esq., B.A.
Rev. Father E. O'Neill, S.J., B.A.

FACULTY OF SCIENCE.

G. W. Küchler, Esq., M.A.
Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
C. E. Cullis, Esq., M.A., Ph.D.
Babu Brajendranath Sil, M.A.
V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukharjee, Esq., B.Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
Sir Thomas Holland, K.C.I.E., D.Sc., F.R.S., F.G.S., A.R.C.S.
Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.
P. C. Ray, Esq., D.Sc., Ph.D.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, F.R.C.S., M.R.C.P., I.M.S.
N. Annandale, Esq., B.A., D.Sc.
J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. Peake, Esq., M.A.
Rev. J. Mitchell, M.A.
Babu Jnanchandra Ghosh, M.A.
W. Tate, Esq., F.C.S., A.R.C.S.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1909.

No. 2.

THE 14TH JANUARY, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.,

Vice-Chancellor, in the Chair.

BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
B. HEATON, ESQ.
H. R. JAMES, ESQ., M.A.
REV. A. TOMORY, M.A.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B. Sc., F.R.S.E.
HARINATH DE, ESQ., M.A.
LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
J. A. CUNNINGHAM, ESQ., M.A., F.C.S., A.P.C.S.I.
C. W. PEAKE, ESQ., M.A.
BABU BINAYENDRANATH SEN, M.A.

38. The Minutes of the Syndicate, dated the 30th December, 1908, were read and confirmed.

39. Read the following Proceedings of the Board of Moderators in Arts, dated the 9th January, 1909 :—

PROCEEDINGS OF THE BOARD OF MODERATORS.

THE 9TH JANUARY, 1909.

Present:

N. N. Ghose, Esqr., F.R.S.L.
J. N. Das Gupta, Esqr., B.A.

The Moderators considered the results of the Suplementary F. A. Examination, as tabulated so far.

The University of Calcutta & Acharya P.C.Ray 1906-1944

61. On a reference from the Registrar it was resolved—

That a Combined Prelimi ary Scientific and First M B. Examination under the old Regulations be held this year; that in this Combined Examination candidates will be admitted to the First M. B. Section under the ordinary rules, and that to the Preliminary part such candidates only are to be admitted as have fulfilled the conditions laid down in the foot note on p. 356 of the Calendar for 1909, Part I.

ORDERED—

That a copy of the above resolution be forwarded to the Principal Medical College, Calcutta, for information.

62. Read the following Report of the Bord of Examiners for the M. A. Examination, 1908:—

"FROM

THE BOARD OF EXAMINERS FOR THE
M.A. EXAMINATION,

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Dated Calcutta, the 13th January, 1909.

SIR,

We have the honour to submit, for the approval of the Hon'ble the Vice-Chancellor and Syndicate, the results of the M.A. Examination.

The number of candidates registered in Sanskrit (A) was 15, of whom 10 passed, 5 failed. Of the successful candidates 2 were placed in the First class, 5 in the Second and 3 in the Third.

The number of candidate registered in Sanskrit (B) was 1, who passed in the Second class.

The number of candidates registered in Sanskrit (D) was 2 of whom one was placed in the Second class and the other in the Third.

The number of candidate registered in Sanskrit (E) was 1, whose Examination was deferred.

There was only 1 candidate in Latin who was placed in the Third class.

The number of candidates registered in Pali was 2, both of whom were placed in the Second class.

The number of candidates registered in Persian was 10 of whom 8 passed, 2 failed. Of the successful candidates 4 were placed in the First class, 2 in the Second and 2 in the Third.

There was only 1 candidate in Arabic, who failed.

The number of candidates registered in History was 28 of whom 12 passed, 13 failed and 3 were absent. Of the successful candidates 1 was placed in the First class, 4 in the Second and 7 in the Third.

The number of candidates registered in Mental and Moral Science was 55 of whom 29 passed, 25 failed and 1 was absent. Of the successful candidates 1 was placed in the First class. 9 in the Second and 19 in the Third.

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The number of candidates registered in Mathematics, (A) was 27 of whom 10 passed, 13 failed and 4 were absent. Of the successful candidates 1 was placed in the First class, 3 in the Second and 6 in the Third.

The number of candidates registered in Mathematics (B) was 15, of whom 10 passed, 4 failed and 1 was absent. Of the successful candidates 1 was placed in the First class, 4 in the Second and 5 in the Third.

The number of candidates registered in Natural and Physical Science (A) Chemistry was 21 of whom 16 passed, 4 failed and 1 was absent. Of the successful candidates 2 were placed in the First class, 9 in the Second and 5 in the Third.

The number of candidates registered in Natural and Physical Science (B) Physics was 5 of whom 3 passed, 2 failed. Of the successful candidates 1 was placed in the Second class and 2 in the Third.

The number of candidates registered in Natural and Physical Science (C) Physics was 26 of whom 17 passed, 8 failed and 1 was absent. Of the successful candidates 3 were placed in the First Class, 8 in the Second and 6 in the Third.

There were 7 candidates in Natural and Physical Science (D) Botany, of whom 6 passed, 1 failed. Of the successful candidates none were placed in the First class, 3 in the Second and 3 in the Third.

There were 3 candidates in Natural and Physical Science (E) Geology, of whom 3 passed, none failed. Of the successful candidates 1 was placed in the Second class and 2 in the Third.

There was only 1 candidate in Natural and Physical Science (F) Physiology and Zoology, who failed.

We beg to recommend the undermentioned successful candidates who were placed in the First class, as eligible for the Government Scholarships tenable in England by natives of India and for appointment in the Provincial Civil Service of Government.

SANSKRIT.

GROUP A.

CLASS I.

Harinath De	...	Non-Collegiate Student.
Gananath Sen	...	Ditto.

PERSIAN.

CLASS I.

Kisorimohan Maitra	...	Non-Collegiate Student.
Ahmad	...	Ditto.
Muhammad Abul Barkat	...	Ditto.
Abul Hasan M. Taiab	...	Ditto.

HISTORY.

CLASS I

Krishnadhan Bandyopadhyay	...	Presidency College.

MENTAL AND MORAL SCIENCE.

CLASS I.

Girijabhushan Ghoshal	Scottish Churches College.

MATHEMATICS. (A)

CLASS I.

Haridas Bagchi — Non-Collegiate Student.

MATHEMATICS (B)

CLASS I.

Bireswar Bagchi ... Presidency College.

CHEMISTRY.

CLASS I.

Asutosh Maitra ... Presidency College.
Kshitischandra Ray ... Ditto.

PHYSICS (C)

CLASS I.

Phanindranath Ghosh ... Presidency College.
Rebatiraman Datta .... Ditto.
Kshitischandra Biswas ... Ditto.

We have the honour to be,

SIR,

Your most obedient servants,

Sd. ASUTOSH MOOKERJEE,
Chairman.

,, C. W. PEAKE.
,, J. N. DAS GUPTA.
,, C. E. CULLIS.
,, GAURISANKAR DE.
,, P. K. SEN.
,, HENRY STEPHEN.
,, E. VREDENBURG.
,, রাম রাম তর্কবত্ন।
,, MIRZA ASHRAF ALI.
,, NRISINHACHANDRA MUKERJEE.
,, KALIPRASANNA BHATTACHARYYA.
,, HARINATH DE.
,, J. VAN NESTE, S.J.
,, A. AL MAMUN SUHRAWARDY.
,, W. C. WORDSWORTH.
,, E. PHILIP HARRISON.
,, PROMATHANATH TARKABHUSHAN.
,, BAHUBALLABHA SHASTRI.
,, SATYAVRATA SAMASRAMI.
,, P. C. ROY.
,, D. N. MALLIK.
,, S. B. MITRA.
S. C. MAHALANABIS.

RESOLVED—

That the report be adopted and that the names of the successful candidates be published in the Gazette.

The following are the names of the successful candidates—

SANSKRIT (B).

CLASS II.

Jagannath Prasada ...	... ...	Non-Collegiate Student.

SANSKRIT (D).

CLASS II.

Datta, Radhaballabh	... ...	Non-Collegiate Student.

CLASS III.

Bandyopadhyay, Pramadacharan	... Sanskrit College.

LATIN.

CLASS III.

Ray, N. N. ...	... ...	Non-Collegiate Student.

PALI.

CLASS II.

In order of merit.

Chattopadhyay, Rebatinath	... ...	Non-Collegiate Student.
Puranchand Nahar ...	... ...	Ditto.

PERSIAN.

CLASS I.

In order of merit.

Maitra, Kisorimohan	... ...	Non-Collegiate Student.
Ahmad	... ...	Ditto.
Muhammad Abul Barkat	... ...	Ditto.
Abul Hasan M. Taiab	... ...	Ditto.

CLASS II.

In order of merit.

Muhammad Muhsin ...	... ...	Non-Collegiate Student.
Syed Abdur Rahman ...	... ...	Ditto.

CLASS III.

A. S. M. Azam ...	... ...	Non-Collegiate Student.
Md. Maqbul Alam ...	... ...	Ditto.

HISTORY.

CLASS I.

Bandyopadhyay, Krishnadhan ...	... Presidency College.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1909.

No. 1.

THE 8TH JANUARY, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair.*

G. W. KUCHLER, ESQ., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
PRINCIPAL N. N. GHOSE, F.R.S.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
REV. A. TOMORY, M.A.
PRINCIPAL J. N. DAS GUPTA, B.A.
PROFESSOR S. C. MAHALANABIS, B.Sc., F.R.S.E.
HARINATH DE, ESQ., M.A., M.R.A.S.
PROFESSOR J. A. CUNNINGHAM, M.A., F.C.S., A.R.C.S.I.
PROFESSOR C. W. PEAKE, M.A.

1. The Minutes of the Syndicate dated the 23rd December, 1908, were read and confirmed.

2. Read the Minutes of the Faculty of Law dated the 19th December, 1908.

ORDERED —

To be recorded.

3. Read a letter from the Secretary to the Government of India, Home Department, stating in reply to this Office letter No. 1789, dated the 29th September, 1908, that under Section 24, sub-section (5) of the Indian Universities Act 1904 (VIII of 1904), the Government of India are pleased to order that, with effect from June 1909, the Patna College, Bankipur, shall be disaffiliated in all standards and subjects except the following, on the ground that the College is not qualified to impart, in accordance with the Regulations of the University, instruction in any standards and subjects other than those specified :—

Intermediate Examination in Arts—English, Vernacular Composition, Sanskrit, Persian, Arabic, Logic, Mathematics, Physics, Chemistry.

MINUTES OF THE SENATE

FOR THE YEAR 1909.

No. 1.

THE 30TH JANUARY, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., F.R.A.S., F.R.S.E.,
Vice-Chancellor, in the Chair.

O. W. KÜCHLER, ESQ., M.A.
W. C. WEDDERBURN, ESQ., M.A.
P. K. RAY, ESQ., D.Sc.
SIR GOORUDO DASS BANERJEE, KT., M.A., D.L., PH.D.
MOULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
RAI DEBENDRANATH RAY, BAHADUR, L.M.S.
N. N. GHOSE, ESQ., F.R.S.L.
BABU CHANDRANATH BASU, M.A., B.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
SHAMS-UL ULAMA AHMAD.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
SURGEON GENERAL SIR GERALD BOMFORD, K.C.I.E., M.D., I.M.S.
M. E. duS PROTHERO, ESQ., M.A.
THE HON'BLE BABU DEVAPRASAD SARBADHIKARI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
REV. F. M. WHEELER, M.A.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
B. HEATON, ESQ.
LT.-COL. C. F. A. HARRIS, M.D., M.R.C.P., I.M.S.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D.
PROF. C. E. CULLIS, M.A. PH.D.
E. D. ROSS, ESQ., PH. D.
THE HON'BLE MR. MADHUSUDAN DAS, C.I.E., M.A., B.L.
H. R. JAMES, ESQ., M.A.
REV. R. GEE, M.A.
V. H. JACKSON, ESQ., M.A.
REV. A. TOMORY, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
A. CHAUDHURI, ESQ., M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
BABU SURENDRANATH BANERJEE, B.A.
LT. COL., F. J. DRURY, M.B., I.M.S.
P. MUKHERJI, ESQ., B.Sc., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A.
W. H. EVERETT, ESQ., B.A. B.R. M.I.E.E.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
THE HON'BLE MR. S. P. SINHA.

P. BRÜHL, Esq., M.I.E.E., F.C.S., F.G.S.
SIR THOMAS HOLLAND, K.C.I.E., F.R.S. F.G.S., A.R.C.S., D.Sc.
RAI TRAILOKYANATH BANERJEE, Bahadur.
THE HON'BLE MR. JUSTICE SYED SHARFUDDIN.
MAULAVI MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
REV. FATHER A. NEUT, S. J.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
HARINATH DE, Esq., M.A.
SHAMSUL ULAMA MIRZA ASHRUF ALI.
LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
BABU NRISINHACHANDRA MOOKERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, Bahadur, B.A.
REV. J. LAMB, M.A., B.D.
ARTHUR CASPERSZ, Esq., B.A.
THE HON'BLE MAULAVI SYED SHAMSUL HUDA, M.A., B.L.
L. H. BURKILL, Esq., M.A., F.E.S.
MAHAMAHOPADHYAYA SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. HEMCHANDRA SEN, M.D.
REV. R. F. PEARCE, M. A.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
C. W. PEAKE, Esq., M.A.
THE HON'BLE MR. F. A. SLACKE, C.I.E., B.A.
G. THIBAUT, Esq., C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
LT.-COL. F. P. MAYNARD, M.B., D.P.H., I.M.S.
BABU HARIHAR PRASAD SINGH, B.L.
REV. S. L. THOMPSON, B.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE STEPHEN, LL.M.
THE HON'BLE MR. JUSTICE C. P. CAMPBELL, B.A., I.C.S.
W. TATE, Esq., A.R.C.S., F.C.S.
F. C. TURNER, Esq., B. A.
REV. FATHER E. O'NEILL, S.J., B.A.
THE HON'BLE MR. A.S. THOMSON.
R. N. MOOKERJEE, Esq., C.I.E.

104. Before the commencement of the ordinary business, Mr. Arden Wood, with the permission of the Vice-Chancellor, addressed the Senate as follows :—

"Mr. Vice-Chancellor and Members of the Senate,

Since we last met here the news has reached India of the death of one who was formerly a prominent member of the Senate, and who, in the course of his connection with the University, served it as Registrar, as a member of the Syndicate, and in various other capacities.

I refer to Mr. F. J. Rowe. I am sure that the Senate would be unwilling that the death of one who was one of its most active members should be passed by in silence. I am grateful to the Vice-Chancellor for giving me the opportunity of speaking of it, and I think there is an appropriateness in my doing so

The University of Calcutta & Acharya P.C.Ray 1906-1944

of Economics be entertained although it had been received after the expiry of the latest date appointed for submitting such applications.

The motion, which was seconded by Khan Bahadur Maulavi Muhammad Yusoof, was carried.

166. Mr. Küchler thereupon moved that the recommendation of the Syndicate that Mr. Manohar Lal be appointed Minto Professor of Economics for a term of five years be adopted.

Khan Bahadur Maulavi Muhammad Yusoof seconded the motion which was carried.

167. The Senate then proceeded to elect four representatives on the Syndicate for the year 1909 of whom two at least had to be either heads of or Professors in Colleges affiliated to the University.

The following persons were proposed for election :—

Names.	*Proposed by—*
1. Professor P. Brühl, F.C.S., F.G.S. M.I.E.E.	.. Dr. Nilratan Sarkar, M.A., M.D.
2. Hariuath De, Esq., M.A.	... Babu Golapchandra Sarkar, Sastri, M.A., B.L.
3. Dr. Surespraead Sarbadhikari, M.D.	Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.
4. Professor J. Lamb, M.A., B.D.	Rev. A. Tomory, M.A.
5. Professor J. A. Cunningham, M.A., F.C.S., A.R.C.S.I.	... Professor P. C. Ray, D.Sc., Ph.D.
6. Professor Binayendranath Sen, M.A.	... Professor S. C. Mahalanabis, B.Sc., F.R.S.E.

The election of two members from among the following gentlemen who were all Professors in Colleges affiliated to the University was first proceeded with :—

Professor P. Brühl, F.C.S., F.G.S., M.I.E.E.
Professor J. Lamb, M.A., B.D.
Professor J. A. Cunningham, M.A., F.C.S., A.R.C.S.I.
Professor Binayendranath Sen, M.A.

On a ballot being taken the following votes were recorded :—

Professor J. A. Cunningham	...	...	43 votes.
Professor P. Brühl	...	...	37 ,,
Professor J. Lamb	..	...	30 ,,
Professor Binayendranath Sen	..	...	27 ,,

Professor Cunningham and Professor Brühl were accordingly declared elected.

A second ballot was then taken to elect the other two Representatives from among the remaining four candidates.

and on the counting of votes it was found that the number of votes secured by each of them was as follows :—

Dr. Suresprasad Sarbadhikari	...	...	53 votes
Mr. Harinath De ...	...	...	31 ,,
Professor J. Lamb	...	...	30 ,,
Professor Binayendranath Sen	...	...	27 ,,

Dr. Suresprasad Sarbadhikari and Mr. Harinath De were accordingly declared elected.

168. The Senate then proceeded to distribute the Fellows among the different Faculties in accordance with Section 2, Chapter III of the Regulations. A list containing the names of persons proposed by the Syndicate for election to the different Faculties as well as the additional names proposed by the Members of the Senate for the Faculties of Arts and Science respectively, was previously supplied to all members of the Senate. Separate voting papers containing the names of persons proposed by the Syndicate for the different Faculties were supplied to the Members present. Before proceeding to the ballot, the Hon'ble the Vice-Chancellor requested the members to score through such names on the voting papers as they did not wish to vote for, and in the cases of the Faculties of Arts and Science, to add to the voting papers such name or names from the additional lists as they intended to give their votes to.

Mr. V. H. Jackson took exception to the procedure as suggested by the Vice-Chancellor, but his objection was over ruled.

The names proposed by the Syndicate and the additional names proposed by the Members of the Senate were as follows:—

FACULTY OF ARTS.

Names proposed by the Syndicate.

The most Rev. R. S. Copleston, M.A., D.D., Lord Bishop of Calcutta.
G. W. Küchler, Esq., M.A., Director of Public Instruction Bengal.
H. Sharp, Esq., M.A., Director of Public Instruction, Eastern Bengal and Assam.
P. K. Ray, Esq., D.Sc.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., PH.D.
H. M. Percival, Esq., M.A.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
N. N. Ghose, Esq., F.R.S.L.
Babu Chandranath Basu, M.A., B.L.
Mahamahopadhyay Haraprasad Sastri, M.A.

ADDITIONAL NAMES PROPOSED BY A MEMBER OF THE SENATE.

Name.	*Proposed by*
The Hon'ble Maulavi Syed Shamsul Huda, M.A., B.L.	Maulavi Serajul Islam, Khan Bahadur B.L.

FACULTY OF SCIENCE.

Names proposed by the Syndicate.

G. W. Küchler, Esq., M.A.
Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
C. E. Cullis, Esq., M.A., PH.D.
Babu Brajendranath Sil, M.A.
V. H. Jackson, Esq., M.A.
G. C. Bose, Esq., M.A., F.C.S.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
H. E. Stapleton, Esq., B.A., B.Sc.
W. H. Everett, Esq., B.A., B.E., M.I.E.E.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., M.I.E.E., F.G.S., F.C.S.
Sir T. H. Holland, K.C.I.E., D.Sc., F.R.S., F.C.S., F.G.S., A.R.C.S.
Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.
P. C. Ray, Esq., D.Sc., PH.D., F.C.S.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, M.D., F.R.C.S., M.R.C.P., I.M.S.
N. Annandale, Esq., B.A., D.Sc.
J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. Peake, Esq., M.A.
Rev. J. Mitchell, M.A.
Babu Jnanchandra Ghosh, M.A.
W. Tate, Esq., F.C.S., A.R.C.S.

★★★

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1909.

No. 1.

THE 6TH FEBRUARY, 1909.

Present:

W. H. EVERETT, Esq., B. A., B. E., M.I.E.E., *in the Chair.*

S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
DR. P. C. RAY, D. Sc., PH.D., F.C.S.
J. A. CUNNINGHAM, Esq., M.A., F.C.S., A.R.C.S.I.
REV. J. MITCHELL, M.A.
W. TATE, Esq., A.R.C.S., F.C.S.

244. The Faculty met to elect a Dean for the year, 1909.

245. Mr. W. H. Everett was voted to the Chair.

RESOLVED—

That Sir Thomas Holland, K.C.I.E., F.R.S., D.Sc., A.R.C.S., F.C.S., F.G.S., be elected Dean of the Faculty for the year, 1909.

(Confirmed.)

W. H. EVERETT,
Chairman.

G. THIBAUT,
Registrar

Minutes of the Faculty of Science

FOR THE YEAR 1909.

No. 1.

THE 6TH FEBRUARY, 1909.

Present:

W. H. EVERETT, ESQ., B. A., B. E., M.I.E.E., *in the Chair.*

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
DR. P. C. RAY, D. Sc., PH.D., F.C.S.
J. A. CUNNINGHAM, ESQ., M.A., F.C.S., A.R.C.S.I.
REV. J. MITCHELL, M.A.
W. TATE, ESQ., A.R.C.S., F.C.S.

244. The Faculty met to elect a Dean for the year, 1909

245. Mr. W. H. Everett was voted to the Chair.

RESOLVED—

That Sir Thomas Holland, K.C.I.E., F.R.S., D.Sc., A.R.C.S., F.C.S., F.G.S., be elected Dean of the Faculty for the year, 1909.

(Confirmed.)

W. H. EVERETT,
Chairman.

G. THIBAUT,
Registrar

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE FACULTY OF SCIENCE

FOR THE YEAR 1909.

No. 2.

THE 27TH FEBRUARY, 1909.

Present:

SIR THOMAS HOLLAND, K.C.I.E., F.R.S., D.Sc.,
Dean, in the Chair.

G. W. KÜCHLER, ESQ., M.A.
DR. NILRATAN SIRCAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A
RAI CHUNILAL BASU, BAHADUR, M.B. F.C.S.
C. E. CULLIS, ESQ., M.A., PH.D.
V. H. JACKSON, ESQ., M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
P. MUKHARJI, ESQ., B.SC., M.R.A.S.
W. H. EVERETT, ESQ., B.A., B.E., M.I.R.E.
S. C. MAHALANABIS, ESQ. B. SC., F.R.S.E.
P. BRUHL, ESQ., M.I.E.E., F.C.S., F.G.S.
DR. P. C. RAY, D. SC., PH. D., F.C.S.
I. H. BURKILL, ESQ., M.A., F.L.S.
N. ANNANDALE, ESQ., B.A., D. SC.
J. A. CUNNINGHAM, ESQ., M.A., F.C.S., A.R.C.S.I.
C. W. PEAKE, ESQ., M.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., F.C.S., A.R.C.S.

467. Under the directions of his Excellency the Chancellor the Faculty met to elect an Ordinary Fellow of the University who was to be either the Head of or a Professor in an affiliated College.

The following were the names and qualifications of the persons proposed for election :—

Name.	*Proposed by.*
1. E. R. Watson, Esq., M.A., B.Sc.	P. Bruhl, Esq., M.I.E.E., F.C.S., F.G.S. W. Tate, Esq., A.R.C.S., F.C.S.

Qualifications.

M.A. (Cambridge University); B.Sc. (London). Professor of Chemistry,

Dacca College. Author of original papers on Chemical subjects. Fellow of the Chemical Society of London.

2. Dr. E. P. Harrison. Ph.D. C. W. Peake, Esq., M.A.

Qualifications.

1851 Exhibition Research Scholar of London University: Ph.D. of Zurich University; Author of numerous papers on the Physical properties of Iron and Nickel at various high and low temperatures, the decomposition of Cupric Oxide at high temperature, &c.—published in the Philosophical Magazine, &c.; Professor of Physics, Presidency College: University Lecturer in Physics.

On a ballot being taken the following votes were recorded:—

Mr. E. R. Watson	...	...	...	8 Votes.
Dr. E. P. Harrison	...	...	...	11 ,,

Dr. Harrison was accordingly elected an Ordinary Fellow by the Faculty subject to the approval of His Excellency the Chancellor.

468. The Faculty then proceeded to elect the Added Members for 1909.

The following are the names and qualifications of the persons proposed for election:—

Name.	*Proposed by*
1. Babu Panchanan Niyogi, M.A.	Dr. P. C. Ray, D.Sc., Ph.D.

Qualifications.

Professor of Chemistry, Rajshahi College; Bengal Government Research Scholar; Premchand Roychand Scholar; author of several papers contributed to the Asiatic Society, Bengal, Zeitschrift für Anorganische Chemie; joint author with Dr. P. C. Ray of some papers communicated to the London Chemical Society.

2. Babu Phanindralal Ganguli, M.A. Dr. C. E. Cullis, M.A., Ph.D.

Qualifications.

M. A. (1900). Gold Medallist; Premchand Roychand Scholar; late Research Scholar in Astronomy. Professor of Mathematics, Bishop's College, Calcutta. Secretary of the Calcutta Mathematical Society.

3. Capt. R. E. Lloyd, M.B., D.Sc., I.M.S. Sir T. H. Holland, K.C.I.E., D.Sc., F.G.S., F.R.S., F.C.S., A.R.C.S.

Qualifications.

Acting Professor of Biology, Calcutta Medical College. Formerly Surgeon Naturalist, Marine Survey of India, Acting Superintendent, Indian Museum.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1909.

No. 2.

THE 13TH MARCH, 1909.

Present:

HIS EXCELLENCY THE RIGHT HON'BLE SIR GILBERT JOHN ELLIOT-MURRAY-KYNYNMOUND, P.C., G.C.M.G., EARL OF MINTO,

Chancellor, in the Chair.

THE HON'BLE SIR EDWARD NORMAN BAKER, K.C.S.I., *Rector.*

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor.*

EX-OFFICIO FELLOWS.

THE MOST REV. REGINALD STEPHEN COPLESTON, M.A., D.D., D.C.L., LL.D., D.Litt., *Lord Bishop of Calcutta.*

THE HON'BLE SIR HARVEY ADAMSON, KT., C.S.I.

THE HON'BLE MR. J. O. MILLER, C.S.I.

G. W. KÜCHLER, Esq., M.A., *Director of Public Instruction, Bengal.*

HONORARY FELLOWS.

THE HON'BLE SIR RAMESWAR SINGH, K.C.I.E., *Maharajah Bahadur of Darbhanga.*

NAWAB BAHADUR SYED AMEER HOSSEIN, C.I.E.

BABU GAURISANKAR DE, M.A., B.L.

RAJA PYARIMOHAN MUKERJEE, C.S.I., M.A., B.L.

RAI RAJKUMAR SARBADHIKARI, BAHADUR, B.L.

BABU KSHETRANATH CHATTERJEE, M.I.C.E.

BABU ISANCHANDRA BOSE, M.A., B.L.

NAWAB A. F. M. ABDUR RAHMAN, KHAN BAHADUR.

BABU GANESCHUNDER CHUNDER.

MAULAVI SAYED ASHRAFUDDIN AHMED, KHAN BAHADUR.

SIR HERBERT HOPE RISLEY, K.C.I.E., C.S.I., B.A., C.S., PH.D.

THE HON'BLE BABU JOGENDRACHANDRA GHOSE, M.A., B.L.

BABU MANMOHANATH RAY, M.A., B.L.

MAULAVI ABDUL KARIM, B.A.

SHAMS-UL-ULAMA AZAUR RAHMAN.

SAHIBZADA MUHAMMAD BURHTTAR SHAH, C.I.E.

BABU DWARKANATH CHAKRABARTI, M.A., B.L.

BABU HARIPADA GHOSHAL, B.C.E.

RAI CHANDRANARAYAN SINGH, BAHADUR, M.A.

BABU JOGENCHANDER DUTT, M.A., B.L.

The University of Calcutta & Acharya P C.Ray 1906-1944

Babu Jyotiprasad Sarbadhikari, M.A., B.L.

ORDINARY FELLOWS.

Dr. P.K. Ray, D. Sc.

Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.

Maulavi Serajul Islam, Khan Bahadur, B.L.

Rai Dekendranath Ray, Bahadur, L. M. S.

Babu Golapchandra Sarkar, Sastri, M.A., B.L.

Mahamahopadhyay Haraprasad Sastri, M.A.

Shams-ul-Ulama Ahmad.

Rai Kailaschandra Basu, Bahadur, C.I.E., L.M.S.

Dr. Nilratan Sircar, M.A., M.D.

Babu Ramendrasundar Trivedi, M.A.

The Hon'ble Babu Dekaprasad Sarbadhikari, M.A., B.L.

W. H. A. Wood, Esq., M.A., F.C.S., F.R.G.S.

Dr. Sureshprasad Sarbadhikari, M.D.

Babu Adharchandra Mukherjee, M.A., B.L.

Rai Chunilal Basu, Bahadur, M.B., F.C.S.

H. Stephen, Esq., M.A.

R. Heaton, Esq.

Lt.-Col. G. F. A. Harris, M.D., F.R.C.P., I.M.S.

Dr. Kedarnath Das, M.D.

Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.

Dr. C. E. Cullis, M.A., Ph. D.

The Hon'ble Mr. Madhusudan Das, C.I.E., M.A., B.L.,

Babu Brajendranath Sil, M.A.

H. R. James, Esq., M.A.

Rev. R. Gee, M.A.

Rev. A. Tomory, M.A.

G. C. Bose, Esq., M.A., F.C.S.

A. Chaudhuri, Esq., M.A.

Lt.-Col. F. J. Drury, M.B., I.M.S.

P. B. Mukharji, Esq., B. Sc., M.R.A.S.

J. N. Das Gupta, Esq., B.A.

W. H. Everett, Esq., B.A., B.E., M.I.E.E.

S. C. Mahalanabis, Esq., B. Sc., F.R.S.E.

P. J. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.

Sir T. H. Holland, K.C.I.E., F.R.S., F.G.S., A.R.C.S., D.Sc.

Rai Trailokyanath Banerjee, Bahadur.

The Hon'ble Mr. Justice Syed Sharf-ud-din.

Maulavi Muhammad Yusoof, Khan Bahadur, B.L.

The Rev. Father A. Nelt, S.J.

Harinath De, Esq., M.A., M.R.A.S.

Shamsul Ulama Mirza Ashruf Ali.

Lt.-Col. C. P. Lukis, M.D., F.R.C.S., I.M.S.

Babu Nrisinhchandra Mukherjee, M.A., B.L.

The Hon'ble Mr. Justice Lalmohan Das, M.A., B.L.

Col. R. Machan, M.B., I.M.S.

Rai Krishnachandra Banerji, Bahadur, B. A.

Rev. J. Lamb, M.A., B.D.

Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.

The Hon'ble Maulavi Syed Shamsul Huda, M. A., B. L.

Mahamahopadhyay Satischandra Acharyya, Vidyabhushan, M.A., Ph.D.

Rev. R. F. Pearce, M. A.

J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.

C. W. Peake, Esq., M.A.

The Hon'ble Mr. F. A. Slacke, C.I.E., B.A.

G. Thibaut, Esq., C.I.E., Ph.D., D.Sc.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Babu Binayendranath Sen, M.A.
Babu Hardwar Prasad Singh, B.L.
Babu Jnanchandra Ghosh, M.A.
Babu Haranchandra Banerjee, M.A., B.L.
Rev. Father E. O'Neill, S.J., B.A.
Syed Ali Imam, Esq.
R. N. Mukerjee, Esq., C.I.E.

527. The Senate was convened for the purpose of conferring Degrees.

The Hon'ble the Vice-Chancellor, with the permission of His Excellency the Chancellor, having declared the Convocation opened, the graduates of the year were admitted to their respective Degrees in the usual manner.

★★★

University of Calcutta.

MINUTES

FOR THE YEAR

1909.

PART II.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Faculty of Science

FOR THE YEAR 1909.

No. 3.

THE 3RD APRIL, 1909.

Present:

SIR T. H. HOLLAND, K.C.I.E., D.Sc., F.R.S., F.G.S., A.R.C.S.,
Dean, in the Chair.

BABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. C. E. CULLIS, M.A., PH D.
G. C. BOSE, ESQ. M.A., F.C.S.
H. E. STAPLETON, ESQ., B.A., B.SC.
W. H. EVERETT, ESQ., B.A., B.E., M.I.M.E.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
LT.-COL. C. P. LUKIS, M.D., F.R.C.S., I.M.S.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., F.C.S., A.R.C.S
DR. E. P. HARRISON, PH.D.
CAPT. R. E. LLOYD, M.R., D.SC., I.M.S.
H. H. HAYDEN, ESQ., B.A., B.E., F.G.S.
BABU CHANDRAMURHAN BHADURI, B.A.
E. R. WATSON, ESQ., M.A., B.SC.

697. The Faculty proceeded to elect from among themselves a representative on the Syndicate for the remainder of the current year in the place of Professor C. W. Peake, resigned.

The names of persons proposed for election were as follows:—

	Name.	*Proposed by.*
1.	W. Tate, Esq., F.C.S., A.R.C.S....	P. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
2.	Dr. C. E. Cullis, M.A., PH.D. ...	Dr. P. C. Ray, D.Sc., PH.D., F.C.S.
3.	W. H. Everett, Esq., B.A., B.E., M.I.M.E. ...	C. W. Peake, Esq., M.A. Prof. S. C. Mahalanabis, B.Sc., F.R.S.E.

50

On a ballot being taken the following votes were recorded:—

W. Tate, Esq., F.C.S., A.R.C.S.	...	6 votes.
Dr. C. E. Cullis, M.A., PH.D.	...	2 ,,
W. H. Everett, Esq., B.A., B.E., M.I.M.E.	...	5 ,,
	Total	13 votes.

As none of the candidates had obtained an absolute majority of votes, the name of Dr. C. E. Cullis was eliminated from the list and a fresh ballot was taken with the following result:—

W. Tate, Esq., F.C.S., A.R.C.S.	...	7 votes.
W. H. Everett, Esq., B.A., B.E., M.I.M.E.	...	6 ,,
	Total	13 votes.

Mr. Tate, who had received an absolute majority of votes, was thereupon declared duly elected.

698. The Faculty next proceeded to appoint the several Boards of Studies for the year 1909, in accordance with Section 1, Chapter V of the Regulations.

The number of Members which the Faculty had to appoint for each of the Boards of Studies numbering 16-19 was fixed by the Syndicate as follows:

Number.	Boards.	Number of members to be appointed by the Faculty of Science.
16	Experimental Psychology	Not more than 2.
17	Mathematics	Ditto. 2.
18	Geography	Ditto. 6.
19	Teaching	Ditto. 3.

The following are the lists of persons nominated for election to the Boards of Studies under which their names appear:—

10. Chemistry.

Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.

Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
Babu Jnanchandra Ghosh, M.A.
W. Tate, Esq., F.C.S., A.R.C.S.
Babu Chandrabhushan Bhaduri, B.A.
P. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.
H. E. Stapleton, Esq., B.A., B.Sc.
Sir T. H. Holland, K.C.I.E., F.R.S., D.Sc., F.G.S., A.R.C.S.
I. H. Burkill, Esq., M.A., F.L.S.
E. R. Watson, Esq., M.A., B.Sc.
Dr. Nilratan Sarkar, M.A., M.D.
G. C. Bose, Esq., M.A., F.C.S.
Rev. J. Mitchell, M.A.
Babu Bidhubhushan Datta, M.A.

11. Mathematical and Experimental Physics.

Babu Ramendrasundar Trivedi, M.A.
Dr. C. E. Callis, M.A., Ph.D.
W. H. Everett, Esq., B.A., B.E., M.I.M.E.
S. G. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Babu Jnanchandra Ghosh, M.A.
G. W. Küchler, Esq.; M.A.
V. H. Jackson, Esq., M.A.
H. E. Stapleton, Esq., B.A., B.Sc.
Dr. P. C. Ray, D.Sc., Ph.D.
Dr. E. P. Harrison, Ph.D.
C. W. Peake, Esq., M.A.

12. Zoology.

Dr. Nilratan Sarkar, M.A., M.D.
Rai Chunilal Bose, Bahadur, M.B., F.C.S.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
Dr. P. C. Ray, D.Sc., Ph.D.
Major L. Rogers, M.D., F.R.C.S., M.R.C.P., I.M.S.
I. H. Burkill, Esq., M.A., F.L.S.
Dr. N. Annandale, B.A., D.Sc.
Capt. R. E. Lloyd, M.B., D.Sc., I.M.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.

13. Geology and Mineralogy.

P. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Sir T. H. Holland, K.C.I.E., D.Sc., F.R.S., F.G.S., A.R.C.S.
Dr. P. C. Ray, D.Sc., Ph.D.
Babu Jnanchandra Ghosh, M.A.
H. H. Hayden, Esq., B.A., B.E., F.C.S.
Dr. N. Annandale, B.A., D.Sc.
I. H. Burkill, Esq., M.A., F.L.S.
W. Tate, Esq., F.C.S., A.R.C.S.
W. H. Everett, Esq., B.A., B.E., M.I.M.E.
Capt. R. E. Lloyd, M.B., D.Sc., I.M.S.

University of Calcutta.

MINUTES

FOR THE YEAR

1909.

PART III.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

MINUTES OF THE SENATE

FOR THE YEAR 1909.

No. 8.

THE 10TH JULY, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair.*

THE MOST REV. R. S. COPLESTON, M.A., D.D., D.C.L., LL.D., D.LITT.
DR. P. K. RAY, D.Sc.
SIR GOORUH DASS BANERJEE, KT., M.A., D.L., PH.D.
H. M. PERCIVAL, ESQ., M.A.
MOHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
SHAMS-UL-ULAMA AHMAD.
BABU MAHENDRANATH RAY, M.A., BL.,
DR. NILRATAN SARKAR, M.A., M.D.,
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESHPRASAD SARVADHIKARI, M.D.
H. STEPHEN, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
REV. R. GEE, M.A.
V. H. JACKSON, ESQ., M.A.
REV. A. TOMORY, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
BABU BHAGABATI SAHAY, M.A., B.L.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, ESQ., B.A.
W. H. EVERETT, ESQ., B.A., B.E., M.I.M.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
MAULAVI MOHAMMAD YUSUF, KHAN BAHADUR, B.L.
HARINATH DE, ESQ., M.A., M.R.A.S.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
G. THIBAUT, ESQ., C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
BABU HARINARAYAN SINGH, B.L.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., A.R.C.S., F.C.S.
REV. FATHER E. O'NEILL, S. J., B.A.

A. THOMSON Esq., M.A.. Dr. D. N. MALLIK, B.A., D.Sc.
Dr. E. P. HARRISON Ph.D. Dr. GIRINDRANATH MUKERJEE, B.A., M.D.
Rai KUMUDINIKANTA BANERJEE, Bahadur, M.A. Dr. S. C. BAGCHI, B.A., LL.B., LL.D.

1580. Before the business on the Agenda of the Meeting was proceeded with, the Hon'ble the Vice-Chancellor said that he had a very mournful duty to perform. News had just been received of the death of the Marquis of Ripon, late Chancellor of the University. It was known to all how remarkable a development of Higher Education in this country had taken place under the administration of the Marquis of Ripon and how largely that development was due to the personal interest taken in Education by the Chancellor of the University. He (the speaker) felt that it would be very wrong on their part to allow the occasion to pass without putting on record their deep regret at the death of the Marquis of Ripon. He accordingly proposed a resolution to that effect.

The Resolution was carried in silence, the Fellows standing.

1581. The Senate proceeded to consider the following letter from the Government of India, Home Department:—

"From the Deputy Secretary to the Government of India, Home Department, to the Registrar, Calcutta University, (through the Hon'ble the Rector), No. 469, dated Simla, the 31st May, 1909.

I am directed to refer to the scheme for the establishment of the Indian Institute of Science published under the Home Department Resolution No. 434-48, dated the 27th May, 1909, and to say that under clause 9 of the scheme (Schedule H) the Senate of the Calcutta University have the right to elect one representative on the Court of Visitors to be constituted under the scheme. I am accordingly to request that the Government of India may be informed in due course of the name of the gentleman whom the Senate of the Calcutta University elect as their representative on the Court".

The following names were duly proposed for election:—

P. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.
V. H. Jackson, Esq., M.A.
Dr. P. C. Ray, D.Sc., Ph.D.

On a ballot being taken the following votes were recorded:—

Mr. P. Brühl	...	...	14 votes
Mr. V. H. Jackson	...	...	7 "
Dr. P. C. Ray	...	...	18 "

Mr. Jackson having obtained the least number of votes his name was eliminated and a fresh ballot was taken with the following results :—

Mr. P. Brühl	...	...	18 votes.
Dr. P. C. Ray	...	...	23 ,,

Dr. P. C. Ray was thereupon declared to be elected as representative of the Senate on the Court of Visitors to the Indian Institute of Science.

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MINUTES OF THE SENATE

FOR THE YEAR 1909.

No. 9.

THE 28TH AUGUST, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

C. H. BROWNING, Esq., M.A.
H. M. PERCIVAL, Esq., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, M.A.
BABU MAHENDRANATH RAY, M.A., B.L
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESHPRASAD SARBADHIKARI, M.L
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, Esq., M.A.
DR. UPENDRANATH BRAHMACHARI M.A., M.D., PH.D.
DR. C. E. CULLIS, M.A., PH.D.
REV. R. GEE, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
A. CHAUDHURI, Esq., M.A.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, Esq., B.A.
P. BRÜHL, Esq., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
MAULAVI MUHAMMAD YUSUF, KHAN BAHADUR, B.L.
SHAMS-UL-ULAMA MIRZA ASHRAF ALI.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
G. THIBAUT, Esq., C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
BABU HARIHAR PRASAD SINGH, B.L.
REV. S. L. THOMPSON, B.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, D.Sc.
DR. GIRINDRANATH MUKHERJEE, B.A., M.D.
DR. S. C. BAGCHI, B.A., LL.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Joint Meeting of the Faculties of Arts and Science

FOR THE YEAR 1909.

No. 2.

THE 20TH NOVEMBER, 1909.

Present:

THE HON'BLE SIR JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *in the Chair.*

BABU MAHENDRANATH RAY, M.A., B.L.
DR. NILRATAN SIRKAR, M.A., M.D.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
BABU ADHARCHANDRA MOOKERJEE, M.A., B.L.
H. STEPHEN, ESQ., M.A.
DR. C. E. CULLIS, M.A., PH.D.
REV. R. GEE, M.A.
BABU BHAGAVATI SAHAY, M.A., B.L.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRUHL, ESQ., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
REV. FATHER A. KEUT, S.J.
HARINATH DE, ESQ., M.A., M.R.A.S.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
THE HON'BLE MR. F. A. SLACKE, B.C., C.S.I., C.I.E.
G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., F.C.S., A.R.C.S.
F. C. TURNER, ESQ., B.A.
REV. FATHER E. O'NEILL, S.J., B.A.
A. THOMSON, ESQ., M.A.
DR. S. C. BAGCHI, B.A., LL.D.
MANOHAR LAL ESQ., M.A.
BABU PHANIBHUSAN GANGULI, M.A.
BABU PANCHANAN NIYOGI, M.A.
BABU CHANDRABHUSHAN BHADURI, B.A.

2820. Professor Panchanan Niyogi moved the following resolution :—

"That this Joint Meeting of the Faculties of Arts and Science recommended to the Syndicate that Astronomy be taught both theoretically and practically as a separate Science subject

The University of Calcutta & Acharya P.C.Ray 1906-1944

like Physics, Chemistry, &c., from the I.Sc. to the D. Sc. standard and that Mathematics and Physics be made compulsory for those who would take up the subject in the I. Sc. and B. Sc. Examinations."

In support of his motion Professor Niyogi remarked that in his opinion the time had come for the University to take steps for the improvement of the study of Astronomy in this country. Astronomy had flourished in India in ancient times, but now it was languishing. The new Regulations of the University had made provision for the study of Physics and Chemistry on modern lines and a thorough practical training in these Sciences was now insisted upon; but nothing analogous had been done for Astronomy; there was indeed some, though quite insufficient, teaching of the Mathematical part of the subject but there was not any arrangement for practical training. Most European Universities, as e.g., London and Edinburgh, recognised Astronomy as an independent subject, and made provision for special Examinations in it, partly theoretical and partly practical; the syllabus and courses of study of those institutions indicated the general lines on which our University should proceed in framing rules for this new subject. What might be called 'nuclei' of astronomical observations already existed in some of the Calcutta Colleges, but no further development in that direction was to be expected as long as the University did not take steps to initiate the study of Astronomy on practical lines. His motion aimed at this end; he, however, now wished to substitute for the clause 'from the I.Sc. to the D.Sc. Standard' the clause from the B.Sc. to the D.Sc. Standard.'

No body came forward to second the motion. It therefore lapsed.

(Confirmed.)

ASUTOSH MOOKERJEE, *Chairman.*

G. THIBAUT, *Registrar.*

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Arts

FOR THE YEAR 1909.

No. 4.

THE 20TH NOVEMBER, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.,
Dean, in the Chair.

BABU MAHENDRANATH RAY, M.A., B.L.,
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.M.S.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
H. STEPHEN, ESQ., M.A.
DR. C. E. CULLIS, M.A., PH.D.
REV. R GEE, M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
REV. FATHER A. NEUT, S.J.
HARINATH DE, ESQ., M.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
THE HON'BLE MR. F. A. SLACKE, B.A., C.S.I., C.I.E.
G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.
W. TATE, ESQ., F.C.S, A.R.C.S.
F. C. TURNER, ESQ., B.A.
REV. FATHER E. O'NEILL, S. J., B.A.
A. THOMSON, ESQ., M.A.
DR. S. C. BAGCHI, B.A., LL. D.

2830. The Faculty met to elect a representative on the Syndicate for the remainder of the current year in the place of Rev. A. Tomory, M.A., resigned.

The following names were proposed for election :—

	NAME	NOMINATED BY
1.	Rev. J. Lamb, M.A., B.D., Principal, Scottish Churches College, Calcutta.	Babu Adharchandra Mukerjee, M.A., B.L.
2.	Rev. Father E. O'Neill, S.J., B.A., Rector, St. Xavier's College, Calcutta.	Harinath De, Esq., M.A.

	NAME	NOMINATED BY
3.	Rev. R. Gee, M.A., Principal, Bishop's College, Calcutta.	The Most Rev. R. S. Copleston, M.A., D.D., D.C.L., LL.D., D.Litt., Lord Bishop of Calcutta.

On a ballot being taken the following votes were recorded:—

1.	Rev. J. Lamb, M.A., B.D. ...	11	votes.
2.	Rev. Father E. O'Neill, S.J., B.A.	7	"
3.	Rev. R. Gee, M.A. ...	5	"

As none of the candidates secured the majority of votes of the members present, a fresh ballot was taken with regard to Rev. J. Lamb and Rev. Father E. O'Neill, S.J., the Rev. R. Gee having obtained the least number of votes his name was eliminated from the list.

The result of the ballot showed that Rev. J. Lamb obtained 14 votes and Rev. Father E. O'Neill, S.J., 8 votes.

Rev. J. Lamb, M.A., B.D., was thereupon declared duly elected.

(Confirmed.)

ASUTOSH MOOKERJEE,
Dean.

G. THIBAUT,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1909.

No. 11.

THE 4TH DECEMBER, 1909.

present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor in the Chair.*

SIR GOOROO DASS BASERJEE, KT., M.A., D.L., PH.D.
SHAMS-UL-ULAMA AHMAD.
BABU MANENDRANATH RAY, M.A., B.L.
DR. NILRATAN SARKAR, M.A., M.D.
BABU BHUPENDRANATH BASU, M.A., B.L.
W. H. ARDEE WOOD, ESQ., M.A., F.C.S., F.R.G.S.
DR. SURESTRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
H. HEATON, ESQ.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
REV. R. GEE, M.A.
C. C. BOSE, ESQ., M.A., F.C.S.
BABU BHAGARATI SAHAY, M.A., B.L.
I. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
THE HON'BLE MR. JUSTICE SYED SHUHFUDDIN.
MAULAVI MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
SHAMS-UL-ULAMA MIRZA ASHRAF ALI.
LT.-COL. C. P. LUKIS, M.D., F.R.C.P., I.M.S.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, M.A., PH.D.
G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.
BABU HARIHAR PRASAD SINGH, B.L.
LT.-COL. D. C. PHILLOT, I.A.
REV. S. L. THOMPSON, B.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
W. TATE, ESQ., F.C.S., A.R.C.S.
REV. FATHER E. O'NEILL, S.J., B.A.
SYED ALI IMAM, ESQ.
R. N. MUKERJEE, ESQ., C.I.E.
A. THOMSON, ESQ., M.A.
DR. GIRINDRANATH MUKERJEE, B.A., M.D.
DR. S. C. BAGCHI, B.A., LL.D.

2960. On a motion by Mr. Justice Syed Shurfuddin, seconded by Rai Trailokyanath Banerjee, Bahadur, it was resolved that with effect from the beginning of the current session the Patna College be affiliated to this University in Law up to the Standard of the Preliminary and Final Examinations in Law.

2961. Mr. Das Gupta moved, on behalf of the Syndicate that under Section 13, Chapter XVIII of the University Regulations, the Government of India be moved to sanction the withdrawal of affiliation in English to the M.A. Standard from the Scottish Churches College, Calcutta, on the ground that the College has failed to maintain adequately for a period of four years the course of study in that subject.

The motion was seconded by Mr. W. H Arden Wood and carried.

2962. Dr. Sureshprasad Sarbadhikari moved, on behalf of the Syndicate, that the undermentioned applicants be permitted to appear at the M.A. Examination in English, Group A, as non-collegiate students in the years stated against their names:—

Name.	year of graduation.	Year in which he wishes to appear at the M.A. Examination.
Nirmalchandra De	(Sup. B.A. 1908)	1912.
Parswanath Sen	(B.A. 1911)	1910.
Chunilal Kundu	(B.A. 1910)	1910.
Parmeswar Dayal	(B.A. 1906)	1910.
Pramathabandhu Ray	(B.A. 1903)	1910.
Sureschandra Gohain	(B.A. March, 1908)	1911.
Madhabchandra Kundu	(B.A. 1909.)	1912.
Bamaprasad Sengupta	(Sup. B.A. 1908)	1912.
Akhowary Kirtinarayan Singh	(B.A. 1909)	1912.
N. N. Ray	(M.A. Latin, 1905)	1910.
Jitendrakumar Haldar	(B.A. 1907)	1910.

The motion was seconded by Rai Trailokyanath Banerjee, Bahadur, and carried.

2963. Mr. Brühl moved, on behalf of the Syndicate, that the following candidates be permitted to appear at the M.A. Examination in History as non-collegiate students in the years stated against their names: —

Name.	Year of graduation.	Year in which he wishes to appear at the M.A. Examination.
Karunakumar Chatterjee	(B.A. 1909)	1910.
Amulyachandra Das	(B.A. 1909)	1912.
Kamakhyacharan Sengupta	(B.A. 1909)	1912.
Surendranath Bhattacharyya	(B.A. 1908)	1912.
Jagannath Datta	(B.A. 1908)	1911.

The motion was seconded by Mr. Tate and carried.

2964. Mr. Mahalanabis moved, on behalf of the Syndicate, that the following candidates be permitted to appear at the M.A. Examination as non-collegiate students in the years stated against their names with Political Economy and Political Philosophy as their subjects :—

Name.	Year of graduation.	Year in which he wishes to appear at the M.A. Examination.
Satischandra Mitra	(B. A. 1907)	1910.
Nagendranath Chattopadhyay	(B. A. Allahabad, 1908)	1911.
Haramohan De	(B. A. 1887)	1910.

The motion was seconded by Mr. Das Gupta and carried.

2965. Mr. Lamb moved, on behalf of the Syndicate, that the undermentioned candidates be permitted to appear at the M.A. Examination in Mental and Moral Philosophy as non-collegiate students in the years stated against their names :

Name.	Year of graduation	Year in which the applicant desires to appear at the M.A. Examination.
Surendranath Das Gupta	(B.A. 1909)	1910
Purushottam R. Saphelkar	(B.A. 1905)	1911

The motion, which was seconded by Babu Adharchandra Mukerjee, was carried.

2966. Dr. Upendranath Brahmachari moved, on behalf of the Syndicate, that Natta Singh, who passed the B.A. Examination of the Punjab University in 1903, be permitted to appear at the M.A. Examination in 1910, as a non-collegiate student, with Persian as his subject.

The motion was seconded by Maulavi Muhammad Yusoof, Khan Bahadur, and was carried.

2967. Mr. Tate moved, on behalf of the Syndicate, that Sailendralal Mitra, who passed the B.A. Examination in 1908 and who has, since July, 1908, been working regularly in the Presidency College under the guidance of Dr. P. C. Ray and other University Lecturers in Chemistry and helping them in their lectures and in demonstrating the experiments in the M.A. and M.Sc. classes, be permitted to appear at the M.A. Examination in Chemistry in 1910, as a non-collegiate student.

The motion which was seconded by Mr. W. H. Arden Wood was carried.

University of Calcutta.

MINUTES

FOR THE YEAR

1909.

PART V.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Syndicate

FOR THE YEAR 1909.

No. 59.

THE 31ST DECEMBER, 1909.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

G. W. KUCHLER, Esq., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
DR. SHRISHPRASAD SARVADHIKARI, M.D.
B. HEATON, Esq.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., Ph.D.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, Esq., B.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
HARINATH DE, Esq., M.A.
REV. J. LAMB, M.A., B.D.
W. TATE, Esq., A.R.C.S., F.C.S.

3088. The Minutes of the Syndicate dated the 18th and the 25th December, 1909, respectively, were read and confirmed.

3089. Considered the constitution of the Faculties for the year 1910.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties for the year 1910 be constituted as follows :—

FACULTY OF ARTS.

The Hon'ble Mr. Justice Asutosh Mookerjee, Saraswati, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.
The Most Rev. Reginald Stephen Copleston, M.A., D.D., D.C.L., LL.D., D.Litt.
The Hon'ble Mr. G. W. Küchler, M.A.
H. Sharp, Esq., M.A.
Dr. P. K. Ray, D.Sc.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the application be granted.

3135. Read a letter from Dr. P. C. Ray, D.Sc., Ph.D., stating that the thesis submitted by Babu Panchanan Neogi in connection with the Premchand Roychand Studentship awarded to him seems to satisfy the conditions laid down in rule 3 of the Rules for the Studentship.

ORDERED—

That as provided in para 3 of the Rules for the Premchand Roychand Studentship framed by the Senate, the Studentship of Rs. 1400 a year, already awarded to Babu Panchanan Neogi, be extended for a further period of 3 years.

3136. Read a letter from the Principal, City College, Calcutta, stating that the College Council have complied with decision of the Syndicate regarding Professor Lalitmohan Das.

ORDERED—

To be recorded.

3137. Read a letter from the Principal, Ripon College, Calcutta, forwarding the assurance by Professor Jitendralal Banerjee, as demanded in this Office letter No. 2215, dated the 11th November, 1909, and stating that the College Council understands the conduct complained of to be addressing meetings of students in connection with political agitation.

ORDERED—

That the letter be recorded and that the Principal, Ripon College, be informed that the assurance given by Professor Jitendralal Banerjee has been accepted by the Syndicate.

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University of Calcutta.

MINUTES

FOR THE YEAR

1910.

PART I

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Faculty of Science

FOR THE YEAR 1910.

No. 1.

THE 8TH JANUARY, 1910.

Present:

W. TATE, Esq., A.R.C.S., F.C.S., *Dean*, *in the Chair.*

THE HON'BLE MR. G. W. KÜCHLER, M.A.
C. LITTLE, Esq., M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. C. E. CULLIS, M.A., Ph.D.
BABU BRAJENDRANATH SIL, M.A.
G. C. BOSE, Esq., M.A., F.C.S.
P. B. MUKHARJEE, Esq., B.Sc., M.R.A.S.
H. E. STAPLETON, Esq., B.A., B.Sc.
W. H. EVERETT, Esq., B.A., B.E., M.I.M.E.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
SURGEON-GENERAL C. P. LUKIS, M.D., F.R.C.S., I.M.S.
Dr. P. C. RAY, D.Sc., Ph.D., F.C.S.
I. H. BURKILL, Esq., M.A., F.L.S.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
C. W. PEAKE, Esq., M.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

2. The Faculty met to elect two representatives on the Syndicate for the year 1910, of whom one at least was to be the Head of, or a Professor in, a College affiliated to the University.

The following were the names of persons nominated for election:—

NAME	PROPOSED BY—
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.	The Hon'ble Mr. G. W. Küchler, M.A. / I. H. Burkill, Esq., M.A., F.L.S.
P. J. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.	H. H. Hayden, Esq., B.A., B.E., F.G.S.
C. W. Peake, Esq., M.A.	S. C. Mahalanabis Esq., B.Sc. F.R.S.E.
W. Tate, Esq., F.C.S., A.R.C.S.	P. J. Brühl, Esq., M.I.E.E., F.C.S. F.G.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The Faculty proceeded in the first instance to elect a representative who was either the Head of, or a Professer in, some affiliated College. All the above-named four candidates satisfied this condition, but Mr. Peake having declined to stand for the first election his name was removed from the list; Mr. Tate announced that, as he was shortly going away on furlough, it would be more satisfactory not to elect him. A ballot was then taken with the following results:—

Mr. Mahalanabis secured	...	14 votes.
Mr. Brühl	...	6 votes.
Mr. Tate	...	1 vote.

Mr. Mahalanabis having secured an absolute majority of votes was declared elected.

The Faculty then proceeded to elect the second representative. A fresh ballot was taken when the following votes were recorded:—

Mr. Brühl	...	6 votes.
Mr. Peake	...	13 votes.
Mr. Tate	...	1 vote.

Mr. Peake was accordingly declared elected.

(Confirmed.)

W. TATE,
Dean.

G. THIBAUT,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1910.

No. 3.

THE 26TH FEBRUARY, 1910.

Present:

THE HON'BLE MR. G. W. KUCHLER, M.A., DIRECTOR OF PUBLIC INSTRUCTION, BENGAL, *Dean, in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
BABU BRAJENDRANATH SIL, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
LT.-COL. F. J. DRURY, M.B., I.M.S.
P. R. MUKHARJEE, ESQ., B.Sc., M.R.A.S.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.G.S., F.C.S.
DR. PRAFFULLACHANDRA RAY, D.Sc., PH.D., F.C.S.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
C. W. PEAKE, ESQ., M.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., F.C.S., A.R.C.S.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJI BAHADUR, M.A.

548. The Faculty met to elect Added Members.

The following were the names and qualifications of the persons proposed:—

Name. — *Proposed by*

Babu Panchanan Neogi, M.A. ... Dr. P. C. Ray, Ph.D., D.Sc.

Qualifications.

First in M. A. in Chemistry, 1904. Research Scholar in Chemistry, 1904-1906. Premchand Roychand Scholar, 1906. Griffith Memorial Prize, 1906. Author of several papers published in Zeitschrift for Anorganische Chemie, Journal, Asiatic Society of Bengal and joint author with Dr. P. C. Ray of several papers published in the Journal and Proceedings of the Chemical Society, London. Elected Fellow of the Chemical Society, 1908. Professor of Chemistry, Government College, Rajshahi.

Name. — *Proposed by*

Rev. J. Watt, M.A., F.C.S. — Babu Janachandra Ghosh, M.A.

Qualifications.

M. A. of the Aberdeen University (1884). Fellow of the Chemical Society of London. Senior Professor of Chemistry, Scottish Churches College. Was a Professor at the Duff College (now incorporated in the Scottish Churches College) from 1883. It is entirely due to his scholarship and indefatigable energy that the Scottish Churches College has attained its present position of the Science side.

Name.	*Proposed by*
Babu Chandrabhushan Bhaduri, B.A. ...	The Hon'ble Mr. G. W. Kuchler, M.A.

Qualifications.

Senior Demonstrator of Chemistry at the Presidency College, Calcutta. University Lecturer in Inorganic Chemistry.

Name.	*Proposed by*
Mr. E. R. Watson, M.A., B.Sc. ...	Paul Brühl, Esq., F.C.S., F.G.S., M.I.E.E.

Qualifications.

M. A. of the Cambridge University. Professor of Chemistry, Dacca College.

Name.	*Proposed by*
Babu Hemchandra Dasgupta ...	Babu Famendrasundar Trivedi, M.A.

Qualifications.

First Class M. A. and Medallist in Geology (1900). Demonstrator in Geology in the Presidency College for over 5 years. Author of certain papers contributed to the Journal of the Asiatic Society of Bengal, author of a paper on 'A fish fossil found in Kashmir' read before the Bangiya Sahitya Parishad. Examiner in Geography at the Entrance Examination and in Geology and Mineralogy at I. Sc. Examination

On a ballot being taken it was found that each of the candidates had succeeded in securing votes of a majority of the members of the Faculty, and they all were accordingly declared duly elected as Added Members of the Faculty.

(Confirmed.)

G. W. KÜCHLER,
Dean.

G. THIBAUT,
Registrar.

MINUTES OF THE SENATE

FOR THE YEAR 1910.

No. 1

THE 29TH JANUARY, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. S. P. SINHA.
THE HON'BLE MR. G. W. KUCHLER, M.A.
THE HON'BLE MR. H. SHARP, M.A.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L
SHAMS-UL-ULAMA AHMAD.
C. LITTLE, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, F.C.S
H. STEPHEN, ESQ., M.A.
E. HEATON, ESQ.
DR. UPENDRANATH BRAHMA, M.A., M.D., PH.D.
DR. C. E. CULLIS, M.A., PH.D.
DR. E. D. ROSS, PH.D.
THE HON'BLE MR. MADHUSUDAN, C.I.E., M.A., B.L.
BABU BRAJENDRANATH SIL, M.A.
H. R. JAMES, ESQ., M.A.
REV. R. GEE, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
A. CHAUDHURI, ESQ., M.A.
BABU BHAGARATI SAHAY, M.A.
LT.-COL. F. J. DRURY, M.B., I.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S.
RAI TRAILOKYANATH BASU BAHADUR.

RAI KALIDRACHANDRA SASTRI, BAHADUR, M.A.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LONG, M.A., B.D.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
ARTHUR CASPERSZ, ESQ., B.A.
L. H. BURRILL, ESQ., M.A., F.I.S.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
DR. N. ANNANDALE, B.A., D.Sc.
C. W. PEAKE, ESQ., M.A.
THE HON'BLE MR. F.A. SLACKE, C.I.E., B.A.
G. THIBAUT, ESQ., C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
LT.-COL. D.C. PHILLOTT, I.A.
REV. S. L. THOMPSON, B.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE H. L. STEPHEN, LL.M.
THE HON'BLE MR A. EARLE, C.I.E., I.C.S.
W. TATE, ESQ., A.R.C.S., F.C.S.
THE HON'BLE MR. A. S. THOMSON.
R. N. MUKERJEE, ESQ., C.I.E.
A. THOMSON, ESQ., M.A.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE BAHADUR, M.A.
DR. GIRINDRANATH MUKERJEE, B.A., M.D.
DR. S. C. BAGCHI, B.A., LL.B., LL.D.
H. H. HAYDEN, ESQ., B.A. B.E., F.G.S.
W. A. J. ARCHBOLD, ESQ., M.A., LL.B.
SHAMS-UL-ULAMA ABU NASR MUHAMMAD WAHEED, M.A.
PANDIYA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
THE HON'BLE MR. R. NATHAN, C.I.E., I.C.S., B.A.
MANOHAR LAL, ESQ., M.A.

250. The first item of business before the meeting was the election of four Representatives on the Syndicate for the year 1909-10, of whom two at least were to be either Heads of, or Professors, in Colleges affiliated to the University.

The following were the names of persons proposed for election :—

H. M. Percival, Esq., M.A.
The Hon'ble Babu Bhupendranath Basu, M.A., B.L.
D. N. Sarbadhikari, M.D.
Dr. E.D. Ross, Ph.D.
H. R. James, Esq., M.A.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Rev. Father E. O'Neill, S.J., B.A.

The Senate first proceeded to elect two Representatives from among the following gentlemen who are either Heads of, or Professors in, Colleges affiliated to the University.

H. M. Percival, Esq., M.A.
H. R. James, Esq., M.A.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Rev. Father E. O'Neill, S.J., B.A.

Minutes of the Faculty of Science

FOR THE YEAR 1910.

No. 2.

THE 5TH FEBRUARY, 1910.

Present:

MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S., *in the Chair.*

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
DR. PRAPHULLACHANDRA RAY, D.Sc., Ph.D., F.C.S.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
W. TATE, ESQ., F.C.S., A.R.C.S.

354. Major L. Rogers was voted to the chair.

RESOLVED UNANIMOUSLY—

That the Hon'ble Mr. G. W. Küchler be elected Dean of the Faculty for the year 1910.

(Confirmed.)

L. ROGERS,
Chairman.

G. THIBAUT,
Registrar.

Minutes of the Syndicate

FOR THE YEAR 1910.

No. 6.

THE 12TH FEBRUARY, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KITCHLER, M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
BABU HEMAMBACHANDRA MAITRA, M.A.
H. R. JAMES, Esq., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., Ph.D.
DR. E. D. ROSS, PH.D.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, Esq., B.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
C. W. PEAKE, Esq., M.A.
REV. J. LAMB, M.A., B.D.

413. The Minutes of the Syndicate, dated the 5th February, 1910, were read and confirmed.

414. Read the Minutes of the Faculty of Law, dated the 4th February, 1910.

ORDERED—

To be recorded.

415. Read the Minutes of the Faculty of Arts, dated the 5th February, 1910.

ORDERED—

To be recorded.

416. Read the Minutes of the Faculty of Science, dated the 5th February, 1910.

ORDERED—

To be recorded.

22

1910.]

also stating that the question of the appointment of a suitable Lecturer is engaging the attention of the authorities and that the appointment when made will be duly reported to the Syndicate.

ORDERED—

To be recorded.

449. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, forwarding a copy of a Report from the Inspector of Schools, Chittagong Division, together with a copy of an application from the Secretary, Feni H. E. School, for its recognition in Geography for the Matriculation Examination and endorsing the recommendations of the Inspector that the School may be permitted to teach the subject for the Matriculation Examination provisionally for the current year.

ORDERED—

That the School be permitted to teach Geography for the Matriculation Examination in accordance with the new Regulations.

450. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, forwarding a copy of a Report from the Inspector of Schools, Chittagong Division, as to the claims of the Brahmanbaria H. E. School for recognition in Geography and endorsing the recommendation of the Inspector that the School may be permitted to teach the subject for the Matriculation Examination.

ORDERED—

That the School be permitted to teach Geography for the Matriculation Examination in accordance with the new Regulations.

451. Read a letter from the Secretary, Tulasar Gurudas H. E. School, submitting further representations in connection with the improvement of the School in modification of, and as a supplement to, the proposals submitted with his letter No. 2, dated the 18th January, 1910.

ORDERED—

That all papers relating to the School be sent to the Director of Public Instruction, Eastern Bengal and Assam, for favour of his personal report.

452. Read a letter from Dr. P. C. Ray, D.Sc., resigning his Examinership in Organic and Inorganic Chemistry at the

The University of Calcutta & Acharya P.C.Ray 1906-1944

ensuing First M.B. and Preliminary Scientific M.B. Examinations, respectively.

ORDERED—

That Rai Kumudinikanta Banerjee, Bahadur, be appointed Examiner in Organic and Inorganic Chemistry at the ensuing First M. B. and Preliminary Scientific M.B. Examinations in place of Dr. P. C. Ray, D.Sc., resigned.

453. The following bills of Contingencies for the half year ending the 30th June, 1909, were passed.

FEE FUND.

JANUARY, 1909.

	Rs.	As.	P.
Salary of Actg. Record Keeper for Dec., 1908	50	0	0
Salary of Addl. Typist for Dec., 1908 ...	30	0	0
Salary of Addl. Clerk for Dec, 1908 ...	25	0	0
Do. Do.	30	0	0
Do. Do.	25	0	0
Salary of Peon attached to the University Auditor for Dec., 1908	9	0	0
Syed Md. Usman Contingency	23	12	0
Sultania Printing Works Printing Mis. ...	10	0	0
Harivan Pagri-Contingency	5	4	0
Giridhari Lal Telphone Fitting Cont. ...	5	8	0
Propr. Hare Press, Printing Draft Report and Syndicate	138	11	0
Dinabandhu Mukerjee, Hire of Kanatha &c. ...	148	0	0
Collector of Stamps-Service Labels ...	100	0	0
Acharyya Satyavrata Samasrami, Books ...	100	0	0
Babu Jogendranath Banerjee-Extra Remuneration for typing	6	0	0
A. B. Patrika-Advertisement	5	8	0
Bengali Do.	5	12	0
Englishman Do.	7	0	0
Messrs. Newman & Co. Stationery ...	1	8	0
Manmohan Banerjee Do.	140	0	0
Do. Do. Do.	3	0	0
I. D. News, Advertisement	8	13	0
N. L. Hallward, Esq., Model papers setting fee	150	0	0
Hindu Patriot, Advertisement	7	0	0
A. B. Patrika Do.	5	8	0
Empire Do.	15	0	0
Quarter Month's pay Bonus to clerks drawing Rs. 50 and less	89	12	0
Do. Do. Menials	41	8	0
Propr. Hare Press, Printing Mis.	263	0	0
Contingencies, 1 bill	232	4	6
Cost of 100 stamped cheques	6	4	0
Collector of Stamps, Service Labels... ...	100	0	0
Babu Chandranath Bose, Model Papers setting fee	200	0	0
Indian Mirror, Advertisement	10	0	0
Bengali Do.	11	12	0
Statesman	21	0	0
M.A. &c. Examination Expenses	152	6	0
The Controller of Stationery	618	12	0

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1910.

No. 4.

THE 9TH APRIL, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, M.A.
THE HON'BLE MR. H. SHARP, M.A.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAMAKHYACHANDRA BASU, BAHADUR, C.I.E., I.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BABU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
DR. KEDARNATH DAS, M.D.
DR. K. D. ROSE, PH.D.
H. R. JAMES, ESQ., M.A.
REV. R GEE, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
ASUTOSH CHAUDHURI, ESQ., M.A.
P. B. MUKHARJEE, ESQ., B.SC., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
SHAMS-UL-ULAMA MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.SC., PH.D., F.C.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

THE HON'BLE MAULAVI SYED SHAMSUL HUDA, M.A., B.L.
J. H. BURKILL, Esq., M.A., F.L.S.
G. THIBAUT, Esq., C.I.E., PH.D., D.Sc.
LT.-COL. D. C PHILLOTT, I.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
R. N. MUKERJEE, Esq., C.I.E.
A. THOMSON, Esq., M.A.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE BAHADUR, M.A.
DR. D. N. MALLIK, B.A., D.Sc., F.R.S.E.
DR. GIRINDRANATH MUKERJEE, B.A., M.D.
PANDYA RAMAVATARA SARMA, M.A.
BABU DINESHCHANDRA SEN, B.A.
BABU LALITMOHAN CHATTERJEE, M.A.
MANOHAR LAL, Esq., M.A.
BABU JANAKINATH BHATTACHARYYA, M.A., B.L.
BABU PHANINDRALAL GANGULI, M.A.
REV. J. A. MURRAY, M.A., B.D.
G. F. SHIRRAS, Esq., B.A.

860. The Hon'ble Babu Debaprasad Sarbadhikari moved on behalf of the Syndicate that the Government of India be moved to sanction the following amendments in Chapter XXIV of the University Regulations:—

(1) That after section 25, there be added a fresh heading 'Miscellaneous' comprising the following sections:—

Section 26. The Students' Residence Committee shall have power to delegate its functions in respect of Mufassil Centres to Local Committees which shall submit all their proceedings to the Students' Residence Committee, for admission to, and confirmation by, the Syndicate.

Section 27. The Syndicate may, upon the recommendation of the Students' Residence Committee, sanction the admission of the following classes of boarders in non-collegiate Hostels:—

(a) University Students.

(b) School boys attending a recognised School attached to an affiliated College, though such students are not related to any College-student residing in the Hostel, provided that the controlling authority of the Hostel gives adequate guarantee for the maintenance of discipline.

Section 28. The Syndicate may, in special and exceptional cases, on the recommendation of the Principal controlling an attached mess and of the Students' Residence Committee, permit one or more students of any other affiliated College or a student of any recognised School, who is nearly related to a member of the mess, to reside in such mess.

(2) That in Section 9, clause (c), there be inserted the words which shall be recorded in a book kept for the purpose between the words 'Superintendent' and 'no student'.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1910.

No. 4.

THE 9TH APRIL, 1910.

Present:

THE HON'BLE MR. G. W. KUCHLER, M.A., DIRECTOR OF PUBLIC INSTRUCTION, BENGAL, *Dean, in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
P. B. MUKHARJEE, ESQ., B.Sc., M.R.A.S.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
DR. PRAFULLACHANDRA RAY, D.Sc., PH.D., F.C.S.
J. H. BURKILL, ESQ., M.A., F.L.S.
REV. J. MITCHELL, M.A.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., D.Sc., F.R.S.E.

881. The Faculty met to elect members for the Boards of Studies numbering 10-15 and 16-19 for the year 1910, under Section 1, Chapter V of the Regulations.

882. The Faculty first proceeded to elect members for the Boards numbering 10-15.

The following members were proposed for election to the respective Boards under which their names appear :—

(10) Board of Studies in Chemistry.

Babu Ramendrasundar Trivedi, M.A.
Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
P. B. Mukherjee, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
Babu Chandrabhushan Bhaduri, B.A.
P. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.
Rev. J. Mitchell, M.A.
Rev. J. Watt, M.A.
Babu Jnanchandra Ghosh, M.A.
Babu Panchanan Niyogi, M.A.

University of Calcutta.

MINUTES

FOR THE YEAR

1910.

PART II.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C Ray 1906-1944

disclosed in the report, the Syndicate may be pleased to take into consideration the question of the continuance of the recognition of the above Institution.

RESOLVED—

That the Inspector of Schools, Patna Division, be requested to favour the Syndicate with his personal report on the present condition of the Bar Bayley H.E. School.

1007. Read a letter from the Inspector of Schools, Rajshahi Division, stating with reference to this Office letter No. 4437, dated the 2nd of April, 1910, that the Bogra Zila School may be permitted to teach Elementary Mechanics up to the Matriculation Standard.

ORDERED—

That the School be permitted to teach Elementary Mechanics for the Matriculation Examination in accordance with the new Regulations.

1008. Read an application from Hemchandra Mookerjee, who has been working as a casual student for two years in the Chemical Laboratory of the Presidency College, praying that, in the circumstances therein stated, he may be permitted to appear at the M.A. Examination in Chemistry in July, 1910, as a non-collegiate student, and enclosing a certificate in original from Dr. P. C. Ray, Ph.D., D.Sc., in support of his prayer.

ORDERED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing M.A. Examination in Chemistry as a non-collegiate student.

1009. Read an application from Pramathanath Basu, requesting that he may now be permitted to take his admission in the Matriculation Class of any recognised School, with a view to qualify himself for admission to the Matriculation Examination in 1911 as a regular student.

ORDERED—

That the applicant be informed that he will not be admitted to the Matriculation Examination in 1911, if he now takes his admission into a recognised H.E. School and that he be advised to appear at the said Examination as a private student.

1010. Read an endorsement from the Head Master, Ulipur

University of Calcutta.

MINUTES

FOR THE YEAR

1910.

PART III.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1910.

No. 7.

THE 6TH AUGUST, 1910.

Present.

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
H. M. PERCIVAL, ESQ., M.A.
BABU GOLAICHANDRA SARKAR, SANTI, M.A., B.L.
C. LITTLE, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
DR. NILRATAN SARKAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
REV. K. M. WHEELER, M.A.
DR. SURESPRASAD SARVADHIKARI, M.D.
BABU ADHARCHANDRA MUKHERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
B. HEATON, ESQ.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. E. D. ROSS, PH.D.
H. R. JAMES, ESQ., M.A.
REV. R. GEE, M.A.
BABU BHAGAVATI SAHAY, M.A., B.L.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
SHAMS-UL-ULAMA MUHAMMAD YUSUF, KHAN BAHADUR, B.L.
THE HON'BLE MR. JUSTICE LALMOHUN DASS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISHCHANDRA ACHARYYA, M.A., PH.D.
MAJOR L. ROGERS, M.D., F.R.C.S., F.R.C.P., I.M.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

C. W. Peake, Esq., M.A.
G. Thibaut, Esq., C.I.E., Ph.D., D.Sc.
Babu Binayendranath Sen, M.A.
Babu Harihar Prasad Singh, B.L.
Rev. J. Mitchell, M.A.
Babu Jnanchandra Ghosh, M.A.
Babu Hakanchandra Banerjee, M.A., B.L.
The Hon'ble Mr. A. S. Thomson.
R. N. Mukerjee, Esq., C.I.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. Girindranath Mukerjee, B.A., M.D.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
H. H. Hayden, Esq., B.A., B.E., F.G.S.
W. A. J. Archbold, Esq., M.A.
Pandya Ramavatara Sarma, M.A.
Babu Dineschandra Sen, B.A.
Manohar Lal, Esq., M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguli, M.A.
G. F. Shirras, Esq., M.A.
Dr. E. R. Watson, Ph.D.

2061. Mr. James moved, on behalf of the Syndicate, that the under-mentioned gentlemen be appointed University Lecturers for a period of two years in the subjects stated against their names:—

W. A. J. Archbold, Esq., M.A. ... Economics, (Dacca).
Dr. Satischandra Vidyabhushan, M.A., Ph.D. ... ... Pali.

The motion was seconded by the Rev. Mr. Lamb and carried.

2062. Babu Mahendranath Ray moved, on behalf of the Syndicate, that the following recommendation of the Faculty of Law be adopted:—

That Dr. Abdulla-al-Mamun Suhrawardy, M.A., Ph.D., D.Litt., Bar-at-Law, be appointed Tagore Law Professor for 1911 and that the subject of his lectures be "The History of Moslem Legal Institutions with special reference to the Law of Waqf."

The motion was seconded by Khan Bahadur Maulvi Muhammad Yusoof and carried.

2063. The Minutes of the Senate, dated the 29th January, 26th February and 9th April, 1910, were confirmed.

2064. Mr. Das Gupta moved, on behalf of the Syndicate, that, in extension of the affiliation already granted to the Ravenshaw College, Cuttack, it be affiliated in History up to the standard of the Intermediate Examination in Arts, with effect from the beginning of the current session.

University of Calcutta.

MINUTES

FOR THE YEAR

1910.

PART IV.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SYNDICATE

FOR THE YEAR 1910.

No. 32.

THE 3RD SEPTEMBER, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

H. M. PERCIVAL, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
H. R. JAMES, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. E. D. ROSS, PH.D.
LT.-COL. F. J. DRURY, M.B., I.M.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
C. W. PEAKE, ESQ., M.A.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.

2319. The Minutes of the Syndicate, dated the 20th August, 1910, were read and confirmed.

2320. Read the Minutes of the Faculty of Medicine, dated the 20th August, 1910.

RESOLVED—

That the consideration of the recommendations made by the Faculty be deferred pending a reference by the Hon'ble the Vice-Chancellor to the Government of India.

2321. Read the Proceedings of the Transfer Committee, dated the 12th August 1910.

RESOLVED—

That the Proceedings be confirmed.

(VI) Principles and History of the Law of Evidence.

Best	... ...	Evidence.
Thayer	... ...	Preliminary Treatise on Evidence.
Phillimore	... ...	History of Evidence.
Wigmore	... ...	Cases on Evidence.

Indian Evidence Act.

(VII) History of English Law.

Pollock and Maitland	...	History of English Law.
Reeves	...	History of English Law, Edited by Finlason.
Holdsworth ...	...	History of English Law.
Kerly	...	History of Equity.
Selected Essays on Anglo American.	...	Legal History (Cambridge University Press.)

2337. The Registrar reported that on the recommendation of the Sub-Committee of the Syndicate the Hon'ble the Vice-Chancellor had awarded the Government of India Scholarship for 1910 to Kshitischandra Sen, B.A.

ORDERED—

That the award be recorded.

2338. Read the following Report of the Committee appointed to consider applications from candidates for the Guruprasanna Ghosh Scholarship for 1910 :—

"We, the members of the Committee appointed to consider the applications from candidates for the Guruprasanna Ghosh Scholarship for 1910, have the honour to submit our report.

We have carefully considered the qualifications of all the candidates and are of opinion that those of Jatindrachandra Chatterjee are the best. We accordingly recommend that the Guruprasanna Ghosh Scholarship for 1910 be awarded to Jatindrachandra Chatterjee, who has the consent of his guardian to proceed to England and who proposes to study Higher Physics in the University of London.

SENATE HOUSE:
The 29th August, 1910.

ASUTOSH MOOKERJEE.
G. W. KÜCHLER.
PAUL BRÜHL.
P. C. RAY."

RESOLVED—

That the Guruprasanna Ghosh Scholarship for the year be awarded to Jatindrachandra Chatterjee.

2339. The Syndicate proceeded to consider what arrangements were to be made for the inspection of Colleges during the current session in accordance with Section 1, Chapter XX of the Regulations.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1910.

No. 36.

THE 1ST OCTOBER, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

BABU MANMOHANATH RAY, M.A., B.L.	H. R. JAMES, Esq., M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.	J. N. DAS GUPTA, Esq., B.A.
DR. SURESPRASAD SARBADHIKARI, M.D.	S. C. MAHALANABIS, Esq., B.Sc. F.R.S.E.
	REV. J. LAMB, M.A., B.D

2692. The Minutes of the Syndicate, dated the 24th September, 1910, were read and confirmed.

2693. Read the Proceedings of the Governing Body of the University Law College, dated the 23rd September, 1910.

RESOLVED—

That the Proceedings be confirmed.

2694. Read the Proceedings of the Board of Studies in Mental and Moral Philosophy, dated the 24th September, 1910.

RESOLVED—

That for the M.A. Examination in 1913 two alternative courses be allowed to be taken up under the heading "Logic" that one of these, to be designated as "Logic as Epistemology, and Inductive Logic or Methodology", comprise the books previously appointed for the Examination of 1913 under "Logic"; and

2708. On the results of the last B. E. Examination the Trevor Medal was awarded to Sasikanta Chakrabarti, Ex-student, C. E. College, Sibpur, and the Ambicacharan Chaudhuri Medal was awarded to Kalicharan Gui of the C. E. College, Sibpur.

2709. The following gentlemen were appointed a Board of Paper-setters for the ensuing M. A. and M. Sc. Examinations:—

M. A. EXAMINATION, 1911.

***

CHEMISTRY.

Babu Chandrabhashan Bhaduri, B.A.
Babu Bidhubhushan Datta, M.A.
B. N. Das, Esq., M.A., B.Sc.
J. A. Cunningham, Esq., M.A., A.R.C.S.I.
Dr. K. S. Caldwell, M.A., Ph.D. (Theoretical Paper)
P. Brühl, Esq., M.I.E.E., F.C.S., F.G.S.
Dr. P. C. Ray, D.Sc., Ph.D.
Dr. O. K. Burger, Ph.D.

2710. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, requesting that Mr. B. N. Das, M.A. (Cal.), B.Sc. (Lond.), may be appointed a University Lecturer in Chemistry at Dacca in the place of Mr. E. R. Watson, M.A., who is going to England on leave.

RESOLVED—

That under Section 10, Chapter XI of the Regulations Mr. B. N. Das, M.A., B.Sc., be appointed University Lecturer in Chemistry at Dacca in the place of Mr. E. R. Watson for the unexpired period of his term of office.

University of Calcutta.

MINUTES

FOR THE YEAR

1910.

PART V.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1910.

No. 9.

THE 3RD DECEMBER, 1910.

Present:

THE HON'BLE SIR ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
H. M. PERCIVAL, ESQ., M.A.
SHAMS-UL-ULAMA AHMAD.
BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.C.S.
DR. SURESPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. R. D. ROSS, PH.D.
H. R. JAMES, ESQ., M.A.
G. C. BOSE, ESQ., M.A., F.C.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
RAI TRAILOKYANATH BANERJEE, BAHADUR.
SHAMS-UL ULAMA MUHAMMAD YUSUF, KHAN BAHADUR, B.L.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, M.A., PH.D.
THE HON'BLE MR. F. A. SLACKE, C.S.I., B.A.
G. THIBAUT, ESQ., C.I.E., PH.D., D.Sc.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
R. N. MUKERJEE, ESQ., C.I.E.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. GIRINDRANATH MUKERJEE, B.A., M.D.
DR. S. C. BAGCHI, B.A., LL.D.
H. H. HAYDEN, ESQ., B.A., B.E., F.G.S.
W. A. J. ARCHBOLD, ESQ., M.A.
PANDEYA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
BABU DINESCHANDRA SEN, B.A.
BABU PHANINDRALAL GANGULI, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SYNDICATE

FOR THE YEAR 1910.

No. 43.

THE 17TH DECEMBER, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair.*

H. M. PERCIVAL, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
H. R. JAMES, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. R. D. ROSS, PH.D.
J. N. DAS GUPTA, ESQ., B.A.
P. J. BRIHL, ESQ., M.I.E.E., F.C.S., F.G.S.
C. W. PEAKE, ESQ., M.A.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.

3064. Read a letter from Lt.-Col. F. J. Drury, M.B., I.M.S., Dean of the Faculty of Medicine, nominating Lt.-Col. J. T. Calvert, M.B., M.R.C.P., D.P.H., I.M.S., Offg. Principal, Medical College, Calcutta, to act as a representative of the Faculty of Medicine on the Syndicate during his absence.

ORDERED—

To be recorded.

3065. The Minutes of the Syndicate, dated the 10th December, 1910, were read and confirmed.

3066. Read the following:—

Proceedings of the Board of Studies in Mathematics, dated the 26th November, 1910.

Proceedings of the Board of Studies in Sanskrit, dated the 26th November, 1910.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Proceedings of the Board of Studies in Mental and Moral Philosophy, dated the 26th November, 1910.

Proceedings of the Board of Studies in Geology and Mineralogy, dated the 28th November, 1910.

Proceedings of the Board of Studies in Sanskritic Languages, dated the 28th November, 1910.

Proceedings of the Board of Studies in Economics and Political Philosophy, dated the 30th November, 1910.

Proceedings of the Board of Studies in Greek, Latin, French, German and Armenian, dated the 30th November, 1910.

Proceedings of the Board of Studies in Arabic, Persian and Urdu, dated the 1st December, 1910.

Proceedings of the Board of Studies in History, dated the 1st December, 1910.

Proceedings of the Board of Studies in Chemistry, dated the 1st December, 1910.

Proceedings of the Board of Studies in Mathematical and Experimental Physics, dated the 1st December, 1910.

Proceedings of the Board of Studies in Geography, dated the 1st December, 1910.

Proceedings of the Board of Studies in Physiology, dated the 5th December, 1910.

Proceedings of the Board of Studies in Botany, dated the 5th December, 1910.

Proceedings of the Board of Studies in Zoology, dated the 5th December, 1910.

Proceedings of the Board of Studies in English, dated the 6th December, 1910.

Proceedings of the Board of Studies in Teaching, dated the 5th December, 1910.

ORDERED—

To be recorded.

3067. The following gentlemen were appointed Examiners to look over the answer-papers of candidates at the forthcoming Matriculation, I.A., I.Sc., B.A., B.Sc. and L.T. and B.T. Examinations :—

HONOURS.

Dr. Ganes Prasad, B.A., D.Sc.
Babu Bipinbihari Gupta, M.A.
Babu Krishnaprasad De, M.A.

PHYSICS.

THEORETICAL.

Pass.

Rai Kumudinikanta Banerjee, Bahadur, M.A.
Babu Jnanchandra Ghosh, M.A.

HONOURS.

Dr. E. P. Harrison, Ph.D.
Samtkumar Dutt, Esq. M.A.

PRACTICAL.

Pass and Honours.

P. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
E. P. Harrison, Esq., Ph.D.
Samtkumar Dutt, Esq., M.A.

CHEMISTRY.

THEORETICAL.

Pass.

Babu Jyotibhushan Bhaduri, M.A.
Rev. Father J. Van Neste, S.J.

HONOURS.

Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
P. W. Robertson, Esq., B.A., M.Sc., Ph.D.

PRACTICAL.

Pass and Honours.

B. N. Das, Esq., M.A., B.Sc.
Babu Chandrabhushan Bhaduri, B.A.
Dr. K. S. Caldwell, Ph.D.
M. Hunter, Esq., M.A., (to superintend the Examination at Rangoon).

ORDERED—

That a remuneration of Rs. 750 be paid to each member of the above Boards on the completion of the work of tabulation.

3069. Read a letter from the Vice-Principal, Brajamohan Institution, Barisal, reporting the temporary appointment of Babu Surendranath Ray, M.A., as Professor of English in the place of Babu Rajanikanta Guha, M.A., who has long been suffering from illness.

ORDERED—

To be recorded.

3070. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, forwarding a copy of a letter from the Offg. Principal, Cotton College, Gauhati, in which it is requested that Gauhati may be created a centre for the B.A. Examination, and recommending that the request may be complied with on the following conditions:—

(a) The Examination will be held in the Cotton College building.

(b) The question papers will be sent to the Principal of the Cotton College.

(c) The Principal, Cotton College, Gauhati, will act as superintendent of the Examination.

ORDERED—

That Gauhati be included in the list of Centres for holding the B. A. Examination, with effect from the Examination in March, 1911, on condition that the expenses to be incurred in connection of the Examination will be met locally and are not to be borne by the University.

3071. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, forwarding a copy of a report on the Paikpara Union Institution, in which the following points are noticed:—

(a) In view of the number of Schools already existing within a very small radius there seems to be hardly any necessity for a School at Paikpara.

(b) There should be one more Graduate and three additional under-graduate teachers on the staff and a properly qualified Maulavi should be appointed.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1910.

No. 5.

THE 19TH DECEMBER, 1910.

Present:

THE HON'BLE MR. O. W. FUCHLER, M.A., *Dean, in the Chair.*

DR. NILRATAN SARKAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
P. BRÜHL, Esq., M.I.M.E., F.C.S., F.G.S.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
I. H. BURKILL, Esq., M.A., F.L.S.
J. A. CUNNINGHAM, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. PEAKE, Esq., M.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
E. P. HARRISON, Esq., PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

3125. The Faculty met to elect from among themselves two Representatives on the Syndicate for the year 1911, of whom one at least was to be either the Head of, or a Professor in, some College affiliated to the University.

The following were the names of members proposed for election :—

Name.	*Proposed by—*
Professor C. W. Peake, M.A., Presidency College.	... J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
Professor E. P. Harrison, Ph.D., Presidency College.	... Professor C. W. Peake, M.A.
Professor Jnanchandra Ghosh, M.A., Scottish Churches College.	Dr. P. C. Ray, D.Sc., Ph.D., F.C.S. Principal Ramendrasundar Trivedi, M.A.

The Faculty first proceeded to elect a member who was either Head of, or a Professor in, some affiliated College.

On a ballot being taken the following votes were recorded:—

Professor C. W. Peake	...	... 5 votes.
Professor Jnanchandra Ghosh		... 5 votes.
Professor E. P. Harrison.	...	... 3 votes.

As none of the candidates obtained an absolute majority of votes, a fresh ballot was taken in which Professor E. P. Harrison's name was eliminated, he having secured the least number of votes.

The second ballot resulted in Professor Jnanchandra Ghosh securing 8 and Professor C. W. Peake 5 votes.

Professor Jnanchandra Ghosh was thereupon declared duly elected.

The Faculty next proceeded to elect the second Representative. Professor E. P. Harrison having withdrawn his name from the list of candidates, Professor C. W. Peake was thereupon declared elected as the second Representative of the Faculty on the Syndicate for the year 1911.

(Confirmed.)

G. W. KÜCHLER,
Dean.

G. THIBAUT,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1910.

No. 44.

THE 31ST DECEMBER, 1910.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

H. M. PERCIVAL, ESQ., M.A.	H. R. JAMES, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.	J. N. DAS GUPTA, ESQ., B.A.
DR. SURESHPRASAD SARBADHIKARI, M.D.	REV. J. LAMB, M.A., B.D.
DR. R. D. ROSS, Ph.D.	REV. FATHER E. O'NEILL, S.J., B.A.

3126. The Hon'ble the Vice-Chancellor appointed the Rev. Father E. O'Neill, S.J., B.A., to act as a member of the Syndicate, during the absence of Principal Brühl.

3127. The Minutes of the Syndicate, dated the 17th December, 1910, were read and confirmed,

3128. Read the Minutes of the Faculty of Medicine, dated the 17th December, 1910.

ORDERED—

To be recorded.

3129. Read the Minutes of the Faculty of Science, dated the 19th December, 1910.

ORDERED—

To be recorded.

218

3195. Read an endorsement from H. M. Percival, Esq., M.A., Professor, Presidency College, forwarding with his recommendation an application from Praphullakumar Guha, a student in the Fifth Year Class of the College, praying that in the circumstances stated in his application a special scholarship may be awarded to him by the University with a view to enable him to continue his studies for the M.A. Examination.

ORDERED—

That one of the available Post-Graduate Scholarships for the year be awarded to Praphullakumar Guha.

3196. Read a letter from the Secretary to the Congress of the Universities of the Empire, forwarding a copy of the Proceedings of a meeting of the Home Committee of the Congress and a scheme of subjects for the Congress, and stating that it is the wish of the Committee that each of the overseas Universities should consider these subjects and if they think well send in comments or make suggestions of additional subjects; also suggesting that the Universities, in a particular Dominion or country, may, with advantage, arrange a common meeting for the consideration and discussion of the subjects proposed for the Congress.

RESOLVED—

That the proposals made in the above letter be referred for consideration to a Committee consisting of :—

The Hon'ble Mr. G. W. Küchler, M.A.
The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.
H. R. James, Esq., M.A.
Dr. P. C. Ray, D.Sc., Ph.D.

3197. Read an endorsement from the Principal, Morris College, Nagpur, forwarding an application from Narayan Ramchandra Vaidya, stating that his brother, Vishwanath Hari Vaidya, who paid his fee for admission to the Preliminary Law Examination to be held on the 2nd January, 1911, died on the 17th December, 1910, and praying that the fee paid by the deceased may be refunded.

ORDERED—

That the amount of fee paid by the deceased be refunded and paid to his brother, Narayan Ramchandra Vaidya, through the Principal, Morris College, Nagpur.

The University of Calcutta & Acharya P.C.Ray 1906-1944

REPORT

OF THE

Syndicate for the Year 1910.

The usual Examinations have been held during the year in Arts, Science, Law, Medicine and Engineering; and a tabular statement is appended, showing the results and affording a comparison with the results of the previous year. The total number of candidates, who appeared at this year's Examination was 9,972 against 19,816 in the previous year.

Supplementary Entrance Examination, 1909.

The number of candidates registered for the Supplementary Entrance Examination held in December, 1909, was 2,803, of whom 1,691 passed, 1,068 failed, 41 were absent, and 3 were expelled. Of the successful candidates, 274 were placed in the First Division, 1,059 in the Second and 358 in the Third. Of the 1,068 candidates who failed, 878 were rejected in English, 244 in Mathematics, 430 in the Second Languages, 619 in History and Geography and 11 for not obtaining the minimum aggregate.

1,262 candidates took up Drawing as an optional subject, of whom 168 passed, 318 failed, and 776 were absent.

The following is a statement of the number of candidates, the number passed, and the percentage of passed candidates from each Province for the Supplementary Entrance Examination in 1909:—

SUPPLEMENTARY ENTRANCE EXAMINATION.

PROVINCES.	DECEMBER, 1909.		
	Number of candidates.	Number passed.	Percentage of passes.
Bengal	1,770	1,052	59·4
Eastern Bengal and Assam ...	950	584	61·4
Burma	83	55	66·2
TOTAL ...	2,803	1,691	60·3

The University of Calcutta & Acharya P.C.Ray 1906-1944

Congress of the Universities of the Empire.

On an invitation from the Vice-Chancellor of the University of London, the undermentioned gentlemen have been provisionally appointed to represent the Calcutta University at the Congress of the Universities of the Empire to be held in London in 1912:—

The Rt. Hon., Mr. Amir Ali, P.C., C.I.E., M.A., LL.D.

The Hon'ble Mr. G. W. Kuchler., M.A.

The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.

P. C. Ray, Esq., D.Sc., Ph.D.

Premchand Roychand Studentships.

On the Report of the Examiners two Premchand Roychand Studentships of Rs. 1,400 a year, each tenable for three years, were awarded to each of the undermentioned candidates:—

Haridas Bagchi, M.A.

Anukulchandra Sarkar, M.A.

Doctor of Law.

The thesis submitted by Babu Saratchandra Basak, M.A., M.L., having been approved by the Board of Examiners, he was admitted to the Degree of Doctor of Law.

Doctor of Philosophy.

The undermentioned gentlemen having satisfied the requirements laid down in the University Regulations were admitted to the Degree of Doctor of Philosophy:—

Babu Hiralal Haldar, M.A.

„ Syamadas Mukhopadhyay, M.A.

„ Brajendranath Sil, M.A.

Darbhanga Research Scholarship.

The Report submitted by Dr. Upendranath Brahmachari, M.A., M.D., Ph.D., embodying the results of his investigations on *Kala azar* having been declared by the Dean of the Faculty of Medicine to be satisfactory, the Darbhanga Scholarship awarded to him was continued.

Jogendrachandra Ghosh Research Prize.

The following subject has been selected for the Jogendrachandra Ghosh Research Prize in Hindu Law for the year 1912: "Heritable rights of women under the different Schools of Hindu Law."

University of Calcutta.

MINUTES

FOR THE YEAR

1911.

PART I

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1911.

No. 1.

THE 7TH JANUARY, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

THE HON'BLE MR. G. W. KÜCHLER, M.A.
DR. P. K. RAY, D.Sc.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
H. M. PERCIVAL, ESQ., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
SHAMS-UL-ULAMA AHMAD.
C. LITTLE, ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.
DR. SURESHPRASAD SARBADHIKARI, M.D.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
H. STEPHEN, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. E. D. ROSS, PH.D.
THE HON'BLE MR. MADHUSUDAN DAS, C.I.E., M.A., B.L.
H. R. JAMES, ESQ., M.A.
REV. R. GEE, M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
P. B. MUKHARJEE, ESQ., B.Sc., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
SHAMS-UL-ULAMA MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
A. CASPERSZ, ESQ., B.A.
THE HON'BLE MAULAVI SYED SHAMSUL HUDA, M.A., B.L.

MAHAMAHOPADHYAY DR. SATISHCHANDRA ACHARYYA, M.A., PH.D.
C. W. PEAKE, ESQ., M.A.
THE HON'BLE MR. F. A. SLACKE, C.S.I., B.A.
G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.
BABU BINAYENDRANATH SEN, M.A.
REV. J. MITCHELL, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARASCHANDRA BANERJEE, M.A., B.L.
THE HON'BLE MR. A. EARLE, C.I.E., I.C.S.
F. C. TURNER, ESQ., M.A.
DR. D. N. MALLIK, SC.D., F.R.S.E.
DR. S. C. BANERJI, B.A., LL.D.
W. A. J. ARCHBOLD, ESQ., M.A.
PANDITA RAMAVATARA SARMA, M.A.
BABU DINESCHANDRA SEN, B.A.
MANOHAR LAL, ESQ., M.A.
BABU PHANINDRALAL GANGULI, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
E. H. ROBERTON, ESQ., B.A., M.SC., F.C.S.
W. B. MACCABE, ESQ.
BABU JNANRANJAN BANERJEE, M.A., B.L.

3. Rev. J. Lamb moved, on behalf of the Syndicate, that the undermentioned candidates be permitted to appear at the M. A. Examination as non-collegiate students in the year and in the subject stated against each name :—

NAME.	Year of graduation.	Year in which the candidate desires to appear at the Examination.	Subject.
Gokulchandra Chattopadhyay.	B. A. (1908).	1911	Pure Mathematics.
Bidhubhushan Datta ...	B. A. (1906).	Do.	Philosophy.
Sadhhushan Basu ...	B. A. (1905).	Do.	English (A).
Sibaprasad Bhattacharyya ...	B. A. (1905).	Do.	Sanskrit (A).
Lalitkumar Ghosh ...	M. A. (1901).	Do.	Mixed Mathematics.
Chandrabhushan Ray ...	B. A. (1908).	Do.	Chemistry.
Harikinkar Samanta ...	B. A. (1907).	Do.	History.
Srikrishnaprasad ...	B. A. (1908).	Do.	Philosophy.
Hiralal Basu	B. A. (1904).	Do.	Pali.
Jatindrachandra Datta ..	B. A. (1908).	Do.	Pure Mathematics.
Prasadkinkar Bandyopadhyay	B. A. (1908).	Do.	Do. Do.
Gholam Muhammad Toor ...	B. A. (Punjab)	Do.	Persian.
Hiriyanna	M.A. (Madras)	Do.	Philosophy.
Ali Ahmad	B. A. (1910).	1912	Persian.

The motion was seconded by Mr. J. R. Banerjee and carried.

4. Mr. Percival moved, on behalf of the Syndicate, that the following candidates, who have been serving as teachers in recognised Schools for three or more years, be permitted to appear at the ensuing B.A. Examination as non-collegiate students :—

Name.	The year in which the candidate intends to appear.
Pramathanath Ghosh	1911.
Gopalchandra Gupta	1911.
Saradacharan Ganguli	1912.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1911.

No. 1.

THE 4TH FEBRUARY, 1911.

Present:

P. B. MUKHARJI, Esq., B.Sc., M.R.A.S., *in the Chair.*

DR. NILRATAN SARKAR, M.A., M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. BRAJENDRANATH SIL, M.A., PH.D.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
DR. PRAPHULLACHANDRA RAY, D.Sc., PH.D., F.C.S.
DR. N. ANNANDALE, B.A., D.Sc.
C. W. PEAKE, Esq., M.A.
BABU JNANCHANDRA GHOSH, M.A.
F. P. HARRISON, Esq., PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
H. H. HAYDEN, Esq., B.A., B.E., F.G.S.

483. P. B. Mukharji, Esq., B.Sc., M.R.A.S., was voted to the Chair.

484. RESOLVED UNANIMOUSLY—

That the Hon'ble Mr. G. W. Küchler, M.A., be elected Dean of the Faculty for the year 1911.

(Confirmed)

P. B. MUKHARJI, *Chairman.*

G. THIBAUT, *Registrar.*

Minutes of the Faculty of Science

FOR THE YEAR 1911.

No. 2.

THE 25TH FEBRUARY, 1911.

Present:

P. B. MUKHARJI, Esq., B.Sc., M.R.A.S., *in the Chair.*

DR. NILRATAN SARKAR, M.A., M.D.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
DR. P. C. RAY, D.Sc., PH.D.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
BABU JNANENDRA GHOSH, M.A.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

656. Mr. P. B. Mukharji was voted to the Chair.

The Faculty met to elect a person for appointment as an Ordinary Fellow of the University.

The undermentioned gentleman had been nominated for election :—

Name.	*Proposed by.*
Rai Chunilal Basu, Bahadur, M.B., F.C.S.	Major L. Rogers, M.D., F.R.C.S., M.R.C.P., I.M.S

Statement of Qualifications.

Asst. Professor of Chemistry in the Calcutta Medical College. Additional Chemical Examiner to the Government.

The nominee Rai Chunilal Basu, Bahadur, was unanimously elected for appointment as an Ordinary Fellow.

(Confirmed.)

P. B. MUKHARJI, *Chairman.* G. THIBAUT, *Registrar.*

Minutes of the Faculty of Science

FOR THE YEAR 1911.

No. 8.

THE 25TH FEBRUARY, 1911.

Present:

THE HON'BLE MR. G. W. KÜCHLER, M.A., *Dean, in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
P.B. MUKHARJEE, ESQ., B.SC., M.R.A.S.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
J. A. CUNNINGHAM, ESQ., M.A., F.C.S., A.R.C.S.I.
BABU JNANCHANDRA GHOSH, M.A.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, SC.D., B.A., F.R.S.E.,

657. The Faculty proceeded to elect Added Members for the year 1911.

The following gentlemen had been nominated for election :–

	Name	*Proposed by.*
1.	Babu Panchnan Niyogi, M.A., Professor, Rajshahi College.	Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.

Statement of Qualifications.

1. Premchand Roychand student in Chemistry, 1906.
2. Research scholar to the Government of Bengal, 1904-06.
3. Elected Fellow of the Chemical Society, London, 1908.
4. Author and joint-author of numerous papers communicated to the Proceedings and Transactions of the Chemical Society, London, Zeitschrift fur Anorganische Chemie, and Proceedings and Journal of the Asiatic Society, Bengal.
5. Added Member of the Faculty of Science for the last two years and Member of the Boards of Studies in Physics, Chemistry and Geology and Mineralogy.

Name	*Proposed by*—
2. Anathnath Palit, M.A., ... Professor, Metropolitan Institution.	Babu Jnanchandra Ghosh, M.A.

Statement of Qualifications.

Babu Anathnath Palit took his M.A. Degree in Mathematics in 1896. He passed in the Second Class, standing first in the A Group. He has since been serving as Professor of Physics and occasionally of Mathematics. He is a devoted worker and is doing excellent work in organising the Physics Classes of the Metropolitan Institution. He has also been for some years an Honorary Lecturer in Physics at the Indian Association for the Cultivation of Science.

Name	*Proposed by.*
3. Dr. B. C. Ghosh, M.A., M.B., Ch. B., Professor, Metropolitan Institution.	Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Statement of Qualifications.

1. Dr. Ghosh passed the M.A. Examination of the Allahabad University in Physics and Mathematics.

2. Was elected a State Scholar.

3. M. A. (Cantab.) Mathematical Tripos and Natural Science Tripos.

4. M.B., Ch. B. (Cantab.)

5. He also won prizes in Sanskrit &c., at the University of Cambridge.

On a ballot being taken the following votes were recorded:—

Mr. Palit	...	10 votes.
Dr. Ghosh	...	10 „
Mr. Niyogi	...	7 „

As none of the candidates succeeded in securing the votes of the majority of the numbers on the Faculty, no one was elected.

(Confirmed.)

G. W. KÜCHLER,
Dean.

G. THIBAUT,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1911.

No. 4.

THE 25TH FEBRUARY, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

THE HON'BLE MR. G. W. KÜCHLER, M.A.
SIR GOORDAS DASS BANERJEE, KT., M.A., D.L., PH.D.
MAULAVI SERAJUL ISLAM, KHAN BAHADUR, B.L.
H. M. PERCIVAL, ESQ., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
SHAMS-UL-ULAMA AHMAD.
C. LITTLE, ESQ., M.A.
RAI KAILASHCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, M.D.
H. STEPHEN, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. E. D. ROSS, PH.D.
H. R. JAMES, ESQ., M.A.
REV. R. GEE, M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
LT.-COL. F. J. DRURY, M.B., I.M.S.
P. B. MUKHARJI, ESQ., B.SC., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.G.S., F.C.S.
SHAMS-UL-ULAMA MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
BABU LALMOHUN DASS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
REV. J. LAMB, M.A., B.D.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
A. CARTERET, ESQ., B.A.
I. H. BURKILL, ESQ., M.A., F.L.S.
MAHAMAHOPADHYAY, DR. SATISCHANDRA ACHARYYA, M.A., PH.D.
REV. R. F. PEARCE, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MAJOR L. ROGERS, M.D., F.R.C.S., M.R.C.P., I.M.S.
J. A. CUNNINGHAM, Esq., M.A., F.C.S., A.R.C.S.I.
C. W. PEAKE, Esq., M.A.
G. THIBAUT, Esq., C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
REV. FATHER E. O'NEILL, S.J., B.A.
R. N. MUKERJEE, Esq., C.I.E.
E. P. HARRISON, Esq., PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
DR. S. C. BAGCHI, B.A., LL.B., LL.D.
W. A. J. ARCHBOLD, Esq., M.A.
SHAMS-UL-ULAMA ABU NASR MUHAMMAD WAHEED, M.A.
PANDEYA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
BABU PHANINDRALAL GANGULI, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
E. H. ROBERTON, Esq., B.A., M.Sc.
RAI ANNADAPRASAD SARKAR, BAHADUR, B.C.E.
W. B. McCABE, Esq.
LT.-COL. C. R. M. GREEN, I.M.S.
MR. JNANRANJAN BANERJEE, M.A., B.L.

662. Before proceeding with the regular business of the Senate meeting, the Vice-Chancellor invited the Members present to witness the unveiling of the portrait of the late Dr. Rai Debendranath Ray, Bahadur, which had been presented to the University.

It was, the Hon'ble the Vice-Chancellor said, a pleasant duty that he had to perform. Dr. Debendranath Ray had many claims to be remembered with respect and admiration. He had enjoyed a high reputation as a teacher of medicine. He had been, for many years, a Member of the Senate, had on more than one occasion represented his Faculty on the Syndicate and had been one of the most careful and trustworthy Examiners of the University. He had been by nature an unobtrusive man; but his strength of character and maturity of judgment were generally recognised, and hence any opinion given by him carried unusual weight. It therefore was with very sincere pleasure that the University had accepted the offer, made by the Debendranath Ray Memorial Committee, of the portrait now about to be unveiled.

The portrait thereupon was unveiled, the Members of the Senate rising from their seats. A vote of thanks to the Vice-Chancellor was proposed by Dr. Kailaschandra Basu, on behalf of the Memorial Committee and the Medical Profession, and was carried unanimously.

Then the regular business of the Senate meeting was proceeded with.

University of Calcutta.

MINUTES

FOR THE YEAR

1911.

PART II

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE FACULTY OF ARTS

FOR THE YEAR 1911.

No. 4.

THE 25TH MARCH, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Dean, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, M.A.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
THE HON'BLE BABU MANMOHAN RAY, M.A., B.L.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
BABU ADHARCHANDRA MUKERJEE, M.A., B.L.
DR. KEDARNATH DAS, M.D.
H. R. JAMES, ESQ., M. A.
REV. R. GEE, M.A.
BABU BHAGABATI SAHAY, M.A., B.L.
J. N. DAS GUPTA, ESQ., B.A.
SHAMS-UL-ULAMA MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.
BABU NRISINHACHANDRA MUKERJEE, M.A., B.L.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, M.A., PH.D.
REV. R. F. PEARCE, M.A.
C. W. PEAKE, ESQ., M.A.
G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.
BABU HARIHAR PRASAD SINGH, B.L.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
F. C. TURNER, ESQ., M.A.
DR. D. N. MALLIK, B.A., SC.D., F.R.S.E.
W. A. J. ARCHBOLD, ESQ., M.A., LL.B.
SHAMS-UL-ULAMA ABU NASR MUHAMMAD WAHED, M.A.
PANDITYA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
MANOHAR LAL, ESQ., M.A.
BABU PRANENDRALAL GANGULI, M.A.
REV. J. A. MURRAY, M.A., B.D.
JNANRANJAN BANERJEE, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
DR. SYAMADAS MUKERJEE, M.A., PH.D.
BABU BIPINBIHARI SEN, M.A., B.L.
REV. R. GORDON MILBURN, M.A.
BABU UMACHARAN BANERJEE, M.A.

936. The Faculty met to elect members of the Boards of Studies numbering 1 to 9 for the year 1911, as specified under Section 1, Chapter V of the Regulations.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1911.

No. 4.

THE 25TH MARCH, 1911.

Present:

THE HON'BLE MR. G. W. KÜCHLER, M.A., *Dean, in the Chair.*

RABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. KEDARNATH DAS, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
P. J. BRÜHL, ESQ., M.I.E.E., F.C.S., F.G.S.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.
C. W. PEAKE, ESQ., M.A.
BABU JNANCHANDRA GHOSH, M.A.
DR. E. P. HARRISON, PH.D.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.,
H. H. HAYDEN, ESQ., B.A., B.E., F.G.S.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

953. The Faculty met to elect members for the Boards of Studies numbering 10-15 and 16-19 for the year 1911, under Section I, Chapter V of the Regulations.

954. The Faculty first proceeded to elect members for the Boards numbering 10-15.

The followmig members were proposed for election to the respective Boards under which their names appear:—

(*10*) *Board of Studies in Chemistry.*

Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Kedarnath Das, M.D.
Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.

P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Dr. P. C. Ray, D.Sc., Ph.D.
J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I
Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
E. R. Watson, Esq., M.A.
Babu Birajmohan Majumdar, M.A., B.L.

(*11*) *Board of Studies in Mathematical and Experimental Physics.*

The Hon'ble Mr. G. W. Küchler, M.A.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Dr. P. C. Ray, D.Sc., Ph.D.
C. W. Peake, Esq., M.A.
J. A. Cunningham, Esq., M.A., F.C.S., A.R.C.S.I.
Babu Jnanchandra Ghosh, M.A.
Prof. E. P. Harrison, Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Babu Birajmohan Majumdar, M.A., B.L.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1911.

No. 6.

THE 25TH MARCH, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, M.A.

THE HON'BLE BABU MANENDRANATH RAY, M.A., B.L.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., I.M.S.

BABU RAMENDRASUNDAR TRIVEDI, M.A.

THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.

BABU ADHARCHANDRA MUKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

DR. KEDARNATH DAS, M.D.

DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.

H. R. JAMES, ESQ., M.A.

REV. R. GEE, M.A.

BABU BHAGABATI SAHAY, M.A., B.L.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.

P. J. BRÜHL, ESQ., M.I.E.E., F.G.S., F.C.S.

SHAMS-UL-ULAMA MUHAMMAD YUSOOF KHAN BAHADUR, B.L.

THE HON'BLE SURGEON-GENERAL C. P. LUKIS, M.D., F.R.C.S., I.M.S.

BABU NRISIMHACHANDRA MUKERJEE, M.A., B.L.

BABU LALMOHAN DAS, M.A., B.L.

RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.

DR. P. C. RAY, D.SC., PH.D., F.C.S.

MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., PH.D.

REV. R. F. PEARCE, M.A.

C. W. PEAKE, ESQ., M.A.

G. THIBAUT, ESQ., C.I.E., PH.D., D.SC.

BABU HARIHARPRASAD SINGH, B.L.

BABU JNANCHANDRA GHOSH, M.A.

BABU HARAKCHANDRA BANERJEE, M.A., B.L.

F. C. TURNER, ESQ., M.A.

R. N. MUKERJEE, ESQ., C.I.E.

E. P. HARRISON, ESQ., PH.D.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

DR. D. N. MALLIK, B.A., SC.D. F.R.S.E.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SYNDICATE

FOR THE YEAR 1911.

No. 20.

THE 20TH MAY, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

H. M. PERCIVAL, ESQ., M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESHPRASAD SARBADHIKARI, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
LT.-COL. D. C. PHILLOTT, I.A.
BABU JNANCHANDRA GHOSH, M.A.
REV. FATHER E. O'NEILL, S.J., B.A.
DR. E. P. HARRISON, PH.D.

1609. The Minutes of the Syndicate, dated the 13th May, 1911, were read and confirmed.

1610. Read the Minutes of the Faculty of Law, dated the 13th May, 1911.

ORDERED—

To be recorded.

RESOLVED—

That the Syndicate recommend to the Senate that the following Rules for conducting the B. L. Examinations in accordance with the Revised Regulations be adopted:—

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That in reply to the above the Under-Secretary, Government of Bengal, General Department, Education Branch, be informed—

That the Syndicate, while sympathising on principle with schemes for the extension of Education, have great doubts as to the desirability of compulsion in matters of instruction, especially with regard to girls, and of the imposition of new taxes in that behalf.

That the Syndicate further are of opinion that actual condition of Colleges and Secondary Schools leaves much to be desired, in as much as many of these institutions, from lack of funds and of trained teachers, do not come up to the requirements of the new Regulations; and that they hence cannot at present support new undertakings for which neither additional funds nor competent teachers are likely to be available, and which on the other hand might divert the application of funds urgently required to meet the present needs and the ligitimate expansion of University and Secondary Education.

1612. Read a letter from the Registrar, Punjab University, forwarding a copy of paragraphs 2 and 3 from the Proceedings of the Sub-Committee of the Syndicate appointed to frame suggestions in connection with the Congress of the Universities of the Empire, and requesting the favour of being supplied with the views of the Calcutta University with reference to paras. 2 and 3 above referred to.

ORDERED—

That a copy of the above letter together with a copy of paragraphs 2 and 3 from the proceedings of the Sub-Committee of the Syndicate of the Punjab University be forwarded for an expression of opinion to each of the undermentioned gentlemen elected to represent the Calcutta University at the above Congress:—

The Hon'ble Mr. G. W. Küchler, M.A.
The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.
Dr. P. C. Ray, D.Sc., Ph.D.

1613. Read a letter from the Director of Public Instruction, Eastern Bengal and Assam, forwarding letter No. 6616, dated the 8th April, 1911, with enclosure, from the Inspector of Schools, Dacca Division, stating that as the Siddheswari High School has not yet been provided with the requisite

University of Calcutta.

MINUTES

FOR THE YEAR

1911.

PART III

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

MINUTES OF THE SYNDICATE

FOR THE YEAR 1911.

No. 21.

THE 27TH MAY, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor*, *in the Chair*.

H. M. PERCIVAL, ESQ., M.A.
THE HON'BLE BABU MANENDRANATH RAY, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. SURESHPRASAD SARBADHIKARI, M.D.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
BABU JNANCHANDRA GHOSH, M.A.
REV. FATHER E. O'NEILL, S.J., B.A.
DR. E. P. HARRISON, PH.D.
LT.-COL. J. T. CALVERT, M.B., I.M.S.

1706. The Minutes of the Syndicate, dated the 20th May, 1911, were read and confirmed.

1707. Read a letter from Professor Rosenberg, inviting a delegate of the Faculty of Medicine to represent the Calcutta University at the Third International Laryngo-Rhinological Congress to be held at Berlin from the 30th August to the 2nd September, 1911.

RESOLVED—

That the thanks of the Hon'ble the Vice-Chancellor and Syndicate be conveyed to Professor Rosenberg for his kind invitation and that Surgeon-General Sir Gerald Bomford, K.C.I.E., M.D., F.R.C.S., I.M.S., be appointed delegate to represent the Medical Faculty of this University at the above Congress.

99

ORDERED—

That tenders submitted by the Mahila Press be accepted.

1778. The Registrar reported that upon the application of the Hon'ble the Vice-Chancellor made in accordance with the Resolution of the Syndicate dated the 19th November, 1910, the Government of Bengal had published a declaration under the Land Acquisition Act for the acquisition of the land measuring about 1 Bigha, 5 Cottahs and 7 Chattaks bounded on the north by the land acquired for the extension of the Senate House, on the east by Madhab Datta's Bazar, on the south by the Colootolah Street and on the west by the military students' quarters.

RESOLVED—

That the Registrar be authorised to pay into the Bank of Bengal to the credit of Government such amount out of the Reserve Fund of the University as may be demanded by Government as contribution towards the cost of acquiring the land specified in the above declaration.

1779. Read the following report of the Board of Examiners for the B.A. Examination, 1911 :—

"FROM

THE BOARD OF EXAMINERS FOR THE B.A. EXAMINATION, 1911.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Calcutta, the 27th May, 1911.

SIR,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the B.A. Examination.

The number of candidates registered for the Examination was 1038 of whom 633 passed 356 failed and 49 were absent.

Of the successful candidates 108 obtained Honours, 52 passed with Distinction and 473 were placed on the Pass Lists. Of the candidates who obtained Honours 13 were placed in the First Division and 95 in the Second.

We beg to recommend the following candidates who passed with Honours and was placed in the First Division, for the Government Scholarship tenable in England by Natives of India :—

1. Sumitkumar Chattopadhyay ; 2. Benjamin A. Smillie ; 3. Regina Guha ; 4. Ramsaran Ghosh ; 5. Akhayacharan Chakrabarti ; 6. Susilkumar Maitra ; 7. Dhirendralal Bhattacharyya ; 8. Satyendranath Modak ; 9. Durgaprasad Khaitan ; 10. Digendranath Saha ; 11. Praphullachandra Chaudhuri ; 12. Jitendraprasad Niyogi ; 13. Hemchandra Roychudhuri.

We have etc., etc.,

ASUTOSH MOOKERJEE, *Chairman.*
E. VREDENBURG.
S. C. MAHALANABIS.
A. AL. MAMUN SUHRAWARDY.
E. P. HARRISON.
P. BRÜHL.
ADHARCHANDRA MUKERJEE.
BENOYENDRANATH SEN.
BRAJALAL CHAKRABARTI.
SATISCHANDRA VIDYABHUSHAN.
JNANCHANDRA GHOSH.
J. N. DASGUPTA.
NIRMALCHANDRA SEN.
DINESCHANDRA SEN.
AHMAD.
A. N. WAHEED.
M. N. BASU.
BHAGABATKUMAR SASTRI.
B. N. DAS.
CHANDRABHUSHAN BHADURI.
M. KAZIM SHIRAZI.
K. BANERJEE.
P. C. RAY.
F. FRANCOTTE.
J. A. CUNNINGHAM.
JYOTISHCHANDRA BANERJEE.
HIRALAL HALDAR.
ADITYANATH MUKERJEE.
J. S. ZKMIN.
KAMALUDDIN AHMAD.
JYOTISHUSHAN BHADURI.
U. BRAHMACHARI.
KRISHNAPRASAD DE.
W. OWSTON SMITH.
S. K. DUTTA.
ABINASCHANDYA BASU
INDUBHUSHAN BRAHMACHARI.
J. A. A. MURRAY."

Read also the following recommendations of the Board :—

(i) That 5 marks be added to the marks obtained by candidates in the theoretical as well as in the practical Examination in Chemistry.

(ii) That candidates who secured 400 to 500 marks in the aggregate but failed in any one particular subject by not more

The University of Calcutta & Acharya P.C.Ray 1906-1944

than 3 % of the full marks in that subject be declared to have passed.

(iii) That candidates who obtained over 50 % in the aggregate be allowed to pass if they fail by not more than 10 in either the theoretical or the practical portion of the examination in any science subject, or by not more than 15 on the whole.

(iv) That candidates who obtain 40 to 50 per cent. of the marks in the aggregate, but fail in any science subject be allowed not more than 6 marks either in the theoretical or in the practical part of the Examination and not more than 9 on the whole in order to pass.

(v) That candidates who obtain between 38 to 40 per cent. of the marks in the aggregate but failed in any one particular subject by 1 % of the full marks in that subject be declared to have passed.

(vi) That the following candidates who have succeeded in securing Honours in any subject but have failed in any one subject, be allowed to pass with Honours :—

Cal. 352 ; Ran. 13 ; Dac. 11 ; Dac. 44.

(vii) That Hughli 12 who failed in one subject but has secured Honours be declared to have passed without Honours.

(viii) That the following candidates who have failed in one subject only but have done well in the other subjects be declared to have passed :—

Cal. 57, 65, 75, 118, 150, 189, 190, 196, 237, 314, 420, 492, 599, F. N. 1 ; Pat. 6, 33 ; Ber. 10, 38 ; Dac. 4, 80 ; Ran. 7, F. 2.

RESOLVED—

That the report be adopted and that the recommendations made by the Board of Examiners be accepted.

The following are the names of the successful candidates :—

The undermentioned candidates are declared to have passed the B. A. Examination with Honours :—

ENGLISH.

FIRST DIVISION.

(In order of merit).

Chattopadhyay, Sunitikumar	...	Presidency College, Calcutta.
Saville, Benjamin A.	...	Bishop's College, Calcutta.
Guha, Regina ...	...	Non-Collegiate Student (Cal. F. N. 5)

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1911.

No. 46.

THE 1ST DECEMBER, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KÜCHLER, M.A.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
THE HON'BLE BABU MANMATHANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
DR. SURESHPRASAD SARVADHIKARI, M.D.
H. SUTCLIFFE, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
C. W. PEAKE, ESQ., M.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
LT.-COL. D. C. PHILLOTT, I.A.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., I.M.S., F.R.C.P., D.P.H.

4527. Lt.-Col. D. C. Phillott, I.A., was nominated by the Hon'ble the Vice-Chancellor to act on the Syndicate during the absence of Dr. E. D. Ross, Ph. D.

4528. The Minutes of the Syndicate, dated the 25th November, 1911, were read and confirmed.

4529. Read the Proceedings of the Students' Residence Committee, dated the 25th November, 1911.

RESOLVED—

That the proceedings be confirmed.

4530. Read the Proceedings of the Board of Studies in Medicine, dated the 30th November, 1911.

ORDERED—

To be recorded.

4531. RESOLVED—

That it be recorded that in nominating persons for appointment as Examiners under Section 2, Chapter XXV of the University Regulations relating to appointment of Examiners, the Boards of Studies are not circumscribed to make their selections only from among persons recommended by the Faculties and Heads of Colleges and from among the applicants who, have applied for such appointments.

RESOLVED ALSO—

That the following Boards of Examiners be appointed to conduct the forthcoming Examinations in Medicine to be held in March next:—

PRELIMINARY SCIENTIFIC M. B. EXAMINATION.

The Dean of the Faculty of Medicine, *President, Ex-Officio.*

Inorganic Chemistry ...	Major F. N. Windsor, M.B., I.M.S. R.N. Das, Esq., M.A., B.Sc.
Physics	Major F. N. Windsor, M.B., I.M.S. S. K. Datta, Esq., M.A.
Botany	I. W. Burkill, Esq., M.A., F.L.S. Capt. R. B. S. Sewell, I.M.S.
Zoology	Capt. R. B. S. Sewell, I.M.S. S. W. Kemp, Esq., M.A.

FIRST M. B. EXAMINATION.

The Dean of the Faculty of Medicine, *President, Ex-Officio.*

Anatomy	Major C. R. Stevens, M.D., F.R.C.S., I.M.S. Dr. Bidhanchandra Ray, M.D., M.R.C.P., F.R.C.S.
Physiology	Major D. McCay, M.B., I.M.S. Dr. B. C. Ghosh, M.A., M.B., B.Ch.
Pharmacology including Pharmacy and Materia Medica.	Lt.-Col. J. T. Calvert, M.B., F.R.C.P., D.P.H., I.M.S. Dr. Harinath Ghosh, M.D.
Organic Chemistry ...	Major F. N. Windsor, M.B., I.M.S. F. B. Watson, Esq., M.A., B.Sc.

SECOND M. B. AND SECOND L. M. S. EXAMINATIONS.

The Dean of the Faculty of Medicine, *President, Ex-Officio.*

The University of Calcutta & Acharya P.C.Ray 1906-1944

	Examiners.
Medicine	Lt.-Col. F. J. Drury, M.B., I.M.S. Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
Surgery	Lt.-Col. R. Bird, C.I.E., M.D., M.S., D.P.H., F.R.C.S., I.M.S. Dr. Suryaprasad Sarbadhikari, B.A., M.D.
Midwifery	Lt.-Col. C.R.N. Green, M.D., F.R.C.S., D.P.H., I.M.S. Dr. Kedarnath Das, M.D.
Pathology ...	Major J. W. D. Megaw, M.B., I.M.S. Dr. Satyasaran Chakrabarti, M.B.
Hygiene ...	Dr. W. W. Kennedy, M.A., M.D., D.P.H., M.R.C.S., L.R.C.P. Dr. Girindranath Mookerjee, B.A., M.D.
Medical Jurisprudence ...	Major Owen St. John Moore, M.D., D.Sc., F.R.C.S., I.M.S. Rai Chunilal Basu, Bahadur, M.B., F.C.S.

4532. In modification of the Resolution of the Syndicate dated the the 25th November, 1911, it was further resolved—

(*a*) That Babu Jyotibhushan Bhaduri, M.A., be appointed Head Examiner in Chemistry at the forthcoming I. A. and I.Sc. Examinations, in the place of Rai Chunilal Basu, Bahadur, M.B., F.C.S.

(*b*) That Babu Kalidas Mallik, M.A., be appointed Examiner in Pass Theoretical Chemistry at the ensuing B.A. and B. Sc. Examinations in the place of Babu Jyotibhushan Bhaduri, M.A.

(*c*) That the Rev. J. N. Rawson, B.A., B.D., be appointed Examiner in Chemistry at the ensuing I.A. and I.Sc. Examinations in the place of Babu Kalidas Mallik, M.A.

4533. Read the Report on the Presidency College, for 1910-11.

ORDERED—

That the portion of the report dealing with the question of the affiliation of the College in Philosophy up to the M.A. standard be omitted and that this order be communicated to Dr. P. K. Ray and Mr. Brühl.

ORDERED ALSO—

That the following amended Report be published in the minutes and that a copy of it be forwarded to the Director of Public Instruction, Bengal, for his information.

Report on the Presidency College for 1910-11.

Governing Body.

Governing Body for 1910-11 is the same as it was for 1909-10.

It had four meetings during the year 1910, the 1st on the 8th March, the 2nd on the 7th April, the 3rd on the 20th August and the 4th on the 6th December.

College Council.

The College Council had eight meetings during the year 1910.
The number of members of the Council has been increased from 15 to 20.

A committee has been appointed to consider the (Presidency College) Improvement Scheme.

It consists of

(1) The Hon'ble Mr. G. W. Kuchler.
(2) „ Dr. Asutosh Mukerjee.
(3) „ Mr. Devaprasad Sarbadhikari.
(4) „ Mr. S. L. Maddox.
(5) Sir Gooroodas Banerjee.
(6) The Hon'ble Mr. Bhupendranath Bose.
(7) Mr. R. K. Finnimore.
(8) „ H. M. Percival.
(9) „ C. W. Peake.
(10) Dr. P. C. Ray.
(11) Mr. H. R. James.

It had three meetings—the 1st on the 23rd July, 1910, the 2nd on the 13th August, and the third on the 6th December.

At the last meeting it was settled that the order of improvement is to be as follows:—

(1) The construction of the Physical Laboratory as part of a long range of buildings in which the Physiological, Botanical and Geological Laboratories are also to be located as follows:

"The Physical Laboratory to consist of the two storeys of the East Wing and two storeys of the Central Block. The Physiological Laboratory to occupy the third storey of the Central Block. The West Wing to contain the Geological Laboratory on the lower storey and the Botanical Laboratory above."

(2) The removal of the Hare School.
(3) The playing fields.
(4) The Hall.
(5) The New Hostel.
(6) Residence of the Principal and three Professors.

II. Changes in the Teaching Staff.

(1) Babu Annadyadhan Banerjee, M.A. in Philosophy, Class II, has been added to the staff in English.

(2) Babu Narendranath Neogi has been appointed in place of Babu Sureschandra Nag resigned on the 23rd July, 1910.

(3) Babu Gangagovinda Basak, M.A. in Chemistry, Class III (1908), has been appointed in the place of Babu Satischandra Mukerjee on deputation.

(4) Babu Saratkumar Ghose has been appointed in the place of Babu Abinaschandra Sen on deputation on the 28th January 1909.

(5) Mr. James William Holme, M.A. (1910), B.A. with Honours in English Literature (1907) of the Liverpool University, was appointed to the Indian Educational Service in May, 1910, and joined the Presidency College on the 3rd November.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1911.

No. 15.

THE 23RD DECEMBER, 1911.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

SIR GOORUO DASS BANERJEE, KT., M.A., D.L., PH.D.

SHAMS-UL-ULMA AHMAD.

THE HON'BLE BABU, MAHENDRANATH RAY, M.A., B.L.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., I.M.S.

BABU HERAMBACHANDRA MAITRA, M.A.

THE HON'BLE BABU DEVAPRASAD SARVADHIKARI, M.A., B.L.

THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.

BABU ADHARCANDRA MUKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

H. STEPHEN, ESQ., M.A.

DR. KEDARNATH DAS, M.D.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

DR. BRAJENDRANATH SIL, M.A., PH.D.

P. B. MUKHARJEE, ESQ. B.Sc., M.R.A.S.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.

SHAMS-UL-ULAMA MAHAMMAD YUSOOF, KHAN BAHADUR, B.L.

RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.

LALMOHUN DOSS, ESQ., M.A., B.L.

DR. P. C. RAY, D.Sc., PH.D., F.C.S.

MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., PH.D.

C. W. PEAKE, ESQ., M.A.

DR. G. THIBAUT, C.I.E., PH.D., D.Sc.

BABU BINAYENDRANATH SEN, M.A.

BABU JNANCHANDRA GHOSH, M. A.

BABU HARANCHANDRA BANERJEE, M.A. B.L.

THE HON'BLE SIR ARCHDALE EARLE, K.C.I.E.

F. C. TURNER, ESQ., M.A.

REV. FATHER E. O'NEILL, S. J., M.A.

SIR RAJENDRANATH MUKERJEE, K.C.I.E.

A. THOMSON, ESQ., M.A.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

DR. GIRINDRANATH MOOKERJEE, B.A., M.D.

ORDERED ALSO—

That a circular be issued to Examiners at all the University Examinations instructing them to note the marks against each answer.

4809. The Registrar reported that, in anticipation of the orders of the Syndicate, he has transferred from the accumulated interest of the University Reserve Fund the sum of Rs. 26,889-15-9 to the Fee Fund in order to wipe out a part of the Fee Fund Debit Balance.

RESOLVED—

That the action of the Registrar be approved.

4810. The Syndicate resolved to recommend to the Senate that the Faculties for the year 1912 be constituted as follows:—

FACULTY OF ARTS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., Vice-Chancellor.
The Right Rev. the Lord Bishop of Calcutta.
The Hon'ble Mr. G. W. Kuehler, C.I.E., M.A.
Sir Gooroo Das Banerjee, Kt., M.A., D.L., Ph.D.
Shams-ul-Ulama Ahmad.
C. Little, Esq., M.A.
The Hon'ble Babu Mahendranath Ray, M.A., B.L.
Babu Herambachandra Maitra, M.A.
The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.
Babu Adharchandra Mukerjee, M.A., B.L.
H. Stephen, Esq., M.A.
Dr. E. D. Ross, Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
H. R. James, Esq., M.A.
C. Russell, Esq., M.A.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
J. N. Das Gupta, Esq., B.A.
Shams-ul-Ulama Khan Bahadur Muhammad Yusoof, B.L.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
C. W. Peake, Esq., M.A.
The Hon'ble Mr. F.A. Slacke, C.S.I., B.A.
Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.
Babu Binayendranath Sen, M.A.
Lt.-Col. D. C. Phillot, I.A.
Babu Haranchandra Banerjee, M.A., B.L.
The Hon'ble Sir Archdale Earle, K.C.I.E.
F. C. Turner, Esq., M.A.
Rev. Father E. O'Neill, S.J., B.A.
A. Thomson, Esq., M.A.
D. N. Mallik, Esq., B.A., Sc.D., F.R.S.E.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Pandeya Ramavatara Sarma, Sahityacharyya, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Babu Dineschandra Sen, B.A.
Babu Lalitmohan Chatterjee, M.A.
Manohar Lal, Esq., M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguli, M.A., B.L.
Rev. J. A. Murray, M.A., B.D.
G. F. Shirras, Esq., M.A.
Jnanranjan Banerjee, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Baidyanath Narayan Singh, M.A., B.L.
Babu Kalipada Basu, M.A.
E. E. Biss, Esq., M.A.
Shams-ul-Ulama Kamaluddin Ahmad, M.A.
J. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. P. C. Lyon, C.S.I., I.C.S.
W. Owston Smith, Esq., B.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
Rev. W. G. Brockway, B.A.
F. W. Sudmersen, Esq., B.A.
R. W. F. Shaw, Esq., M.A.
Rev. R. G. Milburn, B.A.

FACULTY OF SCIENCE.

The Hon'ble Mr. G. W. Kuchler, C.I.E., M.A.
Dr. Nilratan Sarkar, M.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Kedarnath Das, M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.
Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, C.I.E., M.B., D.P.H., F.R.C.S., I.M.S.
C. W. Peake, Esq., M.A.
Babu Jnanchandra Ghosh, M.A.
E. P. Harrison, Esq., Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
D. N. Mallik, Esq., B.A., Sc.D., F.R.S.E.
H. H. Hayden, Esq., C.I.E., B.A., B.E., F.G.S.
E. R. Watson, Esq., M.A., B.Sc.
Capt. R. E. Lloyd, M.A., D.Sc., I.M.S.

University of Calcutta.

MINUTES

FOR THE YEAR

1911.

PART V

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1911.

No. 39.

THE 16TH SEPTEMBER, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
DR. HUKUMPRASAD SARBADHIKARI, M.D.
H. STEPHEN, ESQ., M.A.
DR. CHANDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
LT.-COL. D. C. PHILLOTT, I.A.
BABU JNANCHANDRA GHOSH, M.A.

3420. The Minutes of the Syndicate, dated the 9th September, 1911, were read and confirmed.

3421. Read the Proceedings of the Board of Studies in Law, dated the 12th August, 1911.

ORDERED—

To be recorded.

RESOLVED—

That the following books and Leading Cases be prescribed for the Preliminary, Intermediate and Final Examinations in Law to be held in July, 1914, and January, 1915:—

PRELIMINARY EXAMINATION IN LAW, JULY, 1914, AND JANUARY, 1915.

(1) Jurisprudence	...	Maine's Ancient Law (Edited by Sir F. Pollock); Holland's Jurisprudence (10th Edition); Kelke's Constitutional Law (omitting Chapters X and XI.)

(vi) *Principles and History of the Law of Evidence.*

Best	...	Evidence.
Thayer	...	Preliminary Treatise on Evidence.
Phillimore	...	History of Evidence.
Wigmore	...	Cases on Evidence.
		Indian Evidence Act.

(vii) *History of English Law.*

Pollock and Maitland	...	History of English Law.
Reeves	...	History of English Law; Edited by Finlason.
Holdsworth	...	History of English Law.
Kerly	...	History of Equity.
Maitland	...	Collected papers.

Selected Essays on Anglo-American Legal History (Cambridge University Press).

3422. The Registrar requested the Syndicate to appoint Paper-setters for the M.A. Examination in 1912.

RESOLVED—

That the undermentioned gentlemen be appointed to set papers for the M.A. Examination in 1912:—

***

1738 CALCUTTA UNIVERSITY. [Sept. 16,

3422. The Registrar requested the Syndicate to appoint Paper-setters for the M.A. Examination in 1912.

RESOLVED—

That the undermentioned gentlemen be appointed to set papers for the M.A. Examination in 1912:—

***

CHEMISTRY.

Dr. P. C. Ray, D.Sc., Ph.D.
Babu Chandrabhushan Bhaduri, B.A.
E. R. Watson, Esq., M.A., B.Sc.
Dr. W. A. K. Christie, Ph.D.

3423. Read a letter from Mr. G. F. Shirras, stating that he proposes to send in some suggestions with regard to the Regulations for the B.A. Examination in Economics by the 15th September and requesting that if his suggestions fail to reach the University by the aforesaid date, the Syndicate will be pleased to extend the time by a few days in his case as he is now on tour.

ORDERED—

That the extension of time asked for be allowed.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1911.

No. 40.

THE 23RD SEPTEMBER, 1911.

Present:

THE HON'BLE MR. JUSTICE ASUTOSH MOOKERJEE, SARASWATI, C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
THE HON'BLE BABU DEBAPRASAD SARVADHIKARI, M.A., B.L.
DR. SURESHPRASAD SARVADHIKARI, M.D.
H. STEPHEN, ESQ., M.A.
DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
LT.-COL. D. C. PHILLOTT, I.A.
BABU JNANCHANDRA GHOSH, M.A.
REV. FATHER E. O'NEILL, S.J., B.A.

3547. The Minutes of the Syndicate, dated the 16th of September, 1911, were read and confirmed.

3548. The Vice-Chancellor stated that as Dr. Thibaut had been obliged to leave town on an urgent private business, he had granted him casual leave from the 19th September, 1911.

RESOLVED—

That the action of the Vice-Chancellor be approved and that he be authorised to sign cheques on the Bank of Bengal during the absence of Dr. Thibaut and that the Bank be informed accordingly.

3549. Read a letter from the Rev. R. Gee, M.A., requesting to be excused from the work of inspecting the C.M.S. College, Calcutta, on the ground that he is too closely connected with the Governing Body of the College to be regarded by the public as an impartial and disinterested inspector.

ORDERED—

That the list be approved.

3791. Read a letter from the Principal, Metropolitan Institution, stating, in reply to this Office Circular letter No. 1542, dated the 8th September, 1911, that Jyotindrakumar Basu has taken his admission into the Third-year Class of the above-named Institution.

ORDERED—

That the substance of the charge against the student be communicated to the Principal, Metropolitan Institution, and that he be requested to direct the student to submit any explanation which he may have to offer which will be duly considered by the Syndicate before they proceed to pass final orders on the case.

3792. Read the following reports of the Boards of Examiners for the M.A. and M.Sc. Examinations in Chemistry held in June, 1911 :—

"FROM

THE BOARD OF EXAMINERS FOR THE M.A. EXAMINATION, 1911.

To

THE REGISTRAR, CALCUTTA UNIVERSITY,

Senate House, the 21st September, 1911.

SIR,

We, the members of the Board of Examiners for the M.A. Examination held in June, 1911, have the honour to submit, for the approval of the Hon'ble the Vice-Chancellor and Syndicate, the results of the Examination in Chemistry.

The number of candidates registered for the M.A. Examination in Chemistry was 26, of whom 16 passed and 10 failed. Of the successful candidates 3 were placed in the First Division, 10 in the Second Division and 3 in the Third.

The Examination was conducted in accordance with the Regulations of the University and the special instructions conveyed to us in our letter of appointment.

We also beg to recommend the following candidates as eligible for election to the Government Scholarships tenable in England by Natives of India, as well as for nomination for appointments in the Executive Branch of the Provincial Civil Service.

1.	Priyaduranjan Ray	... Non-collegiate student.
2.	Hemendrakumar Sengupta ...	... Ditto.
3.	Satiprasanna Sarkar ...	... Ditto.

We have etc.,

ASUTOSH MOOKERJEE,
Chairman.
D. N. MILLIK.
B. B. DATTA.
CHANDRABHUSHAN BHADURI.
P. C. RAY.
PAUL BRÜHL."

The University of Calcutta & Acharya P.C.Ray 1906-1944

"FROM

THE BOARD OF EXAMINERS FOR THE M.Sc. EXAMINATION, 1911.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Senate House, the 21st September, 1911.

SIR,

We the Members of the Board of Examiners for the M. Sc. Examination held in June, 1911, have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the Examination in Chemistry.

The number of candidates registered for the M.Sc. Examination in Chemistry was 16, of whom 12 passed and 4 failed. Of the successful candidates 5 were placed in the First Division, and 7 in the Second.

The Examination was conducted in accordance with the Regulations of the University and the special instructions conveyed to us in our letter of appointment.

We also beg to recommend the following candidates as eligible for election to the Government Scholarships tenable in England by Natives of India, as well as for nomination for appointments in the Executive Branch of the Provincial Civil Service.

1.	Sarateandra Jana	.. University student.
2.	Gulabbihari Pal	... Ditto.
3.	Praphullachandra Duggupta ...	. Non collegiate student.
4.	Kritantanath Maitra ...	.. University student.
5.	Haridas Mukhopadhyay ...	.. Ditto.

We have etc.,
ASUTOSH MOOKERJEE,
Chairman.
P. C. RAY.
CHANDRABHUSHAN BHADURI.
B. B. DATTA.
PAUL. BRÜHL.
D. N. MALLIK."

ORDERED—

That the reports be adopted and that the names of the successful candidates be published in the Gazette.

The following are the names of the successful candidates :—

M. A.

CHEMISTRY.

First Division.

(In order of merit.)

Ray, Priyadaranjan ...	...	Non-collegiate student.
Sengupta, Hemendrakumar	...	Ditto ditto.
Sarkar, Satiprasanna	...	Ditto ditto.

University of Calcutta.

MINUTES

FOR THE YEAR

1912.

PART I.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1912.

No. 2.

THE 20TH JANUARY, 1912.

PRESENT :

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCKER, C.I.E., M.A.
THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.,
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU DURGACHARAN SARKHEL, M.A., B.L.
H. STEPHEN, Esq., M.A.
DR. KHUDIRAM DAS, M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
DR. H. D. BOSE, PH. D.
J. N. DAS GUPTA, Esq., B.A.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
C. W. PEAKE, Esq., M.A.
BABU JNANCHANDRA GHOSH, M.A.
REV. FATHER E. O'NEILL, S.J., B.A.
DR. S. C. BANERJI, B.A., LL.B., LL.D.

196. The Minutes of the Syndicate, dated the 18th January, 1912, were read and confirmed.

187. Read a letter from the Joint-Secretary to the Government of India in the Department of Education, stating, with reference to this Office letter No. 2796, dated the 1st December, 1911, that under Section 21, Sub-Section (3) read with Section 22, of the Indian Universities Act, 1904 (VIII of 1904), the Government of India are pleased to order that, with effect from the commencement of the next session, the Daulatpur Hindu Academy shall be affiliated to the Calcutta University in Botany up to the Intermediate standard in Arts and Science.

ORDERED—

To be recorded.

232. Read an endorsement from the Principal, Presidency College, Calcutta, forwarding an application from M. Mohbub Ali, supported by an affidavit made before a Magistrate, praying that, in the circumstances mentioned, the age entered in his Matriculation Certificate may be changed from 19 years to 17 years, 6 months.

ORDERED—

That the application and its enclosures be forwarded to the Inspector of Schools, Presidency Division, for enquiry and report.

233. Read a report from Dr. P. C. Ray, D. Sc., Ph. D., F.C.S., on the thesis on "Some Azo Sylicylic Acid Dyes," submitted by Babu Anukulchandra Sarkar, M.A., Premchand Roychand Scholar for 1910, and stating that the thesis indicates laborious research and fully entitles the student to the final Studentship of Rs. 800.

ORDERED—

That the report be adopted and that Rs. 800 be paid to the student.

234. Read the following reports of the Board of Examiners for the Premchand Roychand Studentships for 1911:—

"REPORT OF THE BOARD OF EXAMINERS FOR THE PREMCHAND ROYCHAND STUDENTSHIPS IN SCIENTIFIC SUBJECTS, 1911.

We have examined the several theses submitted by the candidates and our individual reports are annexed herewith. We recommend that a Studentship be awarded to the best candidate in Mathematics as well to the best candidate in Chemistry.

Senate House, ASUTOSH MOOKERJEE,
The 20th January, 1912. WILLIAM TATE."

"REPORT OF THE BOARD OF EXAMINERS FOR THE PREMCHAND ROYCHAND STUDENTSHIPS IN LITERARY SUBJECTS, 1911.

We have examined the several theses submitted by candidates and our individual reports are annexed herewith. We recommend that a Studentship be awarded to the best candidate in Economics as well as to the best candidate in Indian Antiquities.

Senate House, MANOHAR LAL,
The 20th January, 1911. G. THIBAUT."

RESOLVED—

That the Reports be recorded and that three Studentships, one in Literary subject and two in Scientific subjects be awarded to the following candidates:—

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1912.

No. 1.

THE 27TH JANUARY, 1912.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

SIR GOORUS DASS BANERJEE, KT., M.A., D.L., PH.D.
SHAMS-UL-ULAMA AMMAD.
THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
RAI KAILASHCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
DR. NILRATAN SIRCAR, M.A., M.D.
BABU HARAKRACHANDRA MAITRA, M.A.
THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.
BABU AMBARCHANDRA MUKHERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
COL. G. F. A. HARRIS, C.S.I., M.D., F.R.C.P., I.M.S.
LT.-COL. R. HUME, C.I.E., M.D., M.S., D.P.H., F.R.C.S., I.M.S.
DR. KEDARNATH DAS, M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
DR. BRAJENDRANATH SIL, M.A., PH.D.
C. RUSSELL, ESQ., M.A.
LT.-COL. F. J. DRURY, M.B., I.M.S.
P. N. MUKHARJI, ESQ., B.SC., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
P. BANERJI, ESQ., F.C.S., F.G.S., M.I.M.M.,
SHAMS-UL-ULAMA MUHAMMAD YUSUF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
THE HON'BLE SURGEON-GENERAL SIR CHARLES LUKIS, K.C.S.I., M.D., F.R.C.S., I.M.S.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A., A.M.I.C.E.
DR. P. C. RAY, D.SC., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISHCHANDRA VIDYABHUSHAN, M.A., PH.D.
MAJOR L. ROGERS, C.I.E., M.D., D.P.H. F.R.C.S., I.M.S.
C. W. PEAKE, ESQ., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

DR. G. THIBAUT, C.I.E., PH.D., D.Sc.
BABU BINAYENDRANATH SEN, M.A.
LT.-COL. D. C. PHILLOTT, I.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE C. P. CAMPBELL, B.A.
F. C. TURNER, ESQ., M.A.
REV. FATHER E. O'NEILL, S.J., B.A.
THE HON'BLE JUSTICE SIR RICHARD HARINGTON, BART, M.A.
SIR RAJENDRANATH MOOKERJEE, K.C.I.E.
A. THOMSON, ESQ., M.A.
E. P. HARRISON, ESQ., PH.D.
D. N. MALLIK, ESQ., B.A., Sc.D., F.R.S.E.
DR. GIRINDRANATH MUKERJEE, B.A., M.D.
S. C. HAGCHI, ESQ., B.A., LL.B., LL.D.
THE HON'BLE MR. G. H. R. KENRICK, K.C., LL.D.
W. A. J. ARCHBOLD, ESQ., M.A., LL.B.
PANDITA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
BABU DINESCHANDRA SEN, B.A.
MANOHAR LAL, ESQ., M.A.
BABU PRAMINDRALAL GANGULI, M.A., F.R.A.S.
REV. J. A. MURRAY, M.A., B.D.
E. H. ROBERTON, ESQ., B.A., M.Sc., M.I.E.E., F.G.S.
E. R. WATSON, ESQ., M.A., B.Sc.
W. B. MACCABE, ESQ.
LT.-COL. C. R. M. GREEN, M.D., F.R.C.S., I.M.S.
JNANARANJAN BANERJEE, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
BABU BAIDYANATH NARAYAN SINHA, M.A., B.L.
BABU KALIPADA BASU, M.A.
K. E. BIRR, ESQ., M.A.
SHAMS-UL-ULAMA KAMALUDDIN AHMAD, M.A.
THE HON'BLE MR. B. K. FINNIMORE.
J. BARROW, ESQ., M.A.
BABU BIDHUBHUSHAN GOSWAMI, M.A.
ABDUL MAJID, ESQ., B.A., LL.B.
OWSTON SMITH, ESQ., B.A.
F. W. SUDMERSEN, ESQ., B.A.
R. W. F. SHAW, ESQ., M.A.
REV. R. G. MILBURN, B.A.

371. The first item of business before the meeting was the election of four Representatives on the Syndicate for the year 1912, of whom two at least were to be either Heads of, or Professors in, Colleges affiliated to the University.

The undermentioned persons were proposed for election :—

Name	*Proposed by*—
The Hon'ble Babu Bhupendranath Basu, M.A., B.L.	Dr. P. C. Ray, D. Sc., Ph. D., F. C. S.
Dr. Kedarnath Das, M. D.	Rai Kailaschandra Basu, Bahadur, C.I.E., L. M. S.
Dr. R. D. Ross, Ph. D.	Babu Adharchandra Mukherjee, M.A., B.L.
H. E. James, Esq., M.A.	Babu Phanindralal Ganguli, M. A., F. R. A. S.
S. C. Mahalanabis, Esq., B.Sc., F. R. S. E.	The Hon'ble Mr. G. W. Kilchler, C. I. E., M. A.

The University of Calcutta & Acharya P C.Ray 1906-1944

375. The Senate next proceeded to distribute the Fellows among the different Faculties in accordance with Section 2, Chapter III of the University Regulations. A list containing the names of persons recommended by the Syndicate for election to the different Faculties had previously been circulated to the Members of the Senate. No additional names for any of the Faculties were proposed by the Members. Separate voting papers containing the names of persons recommended by the Syndicate for the different Faculties were supplied to the Members present at the meeting and the Members were requested by the Vice-Chancellor to score through such names on the voting paper as they did not wish to vote for. The lists were then voted on, Faculty by Faculty, when it was found that the recommendations of the Syndicate as regards the constitution of the several Faculties had been accepted by the Senate without any modification.

The Faculties for the year 1912 were thereupon declared to be constituted as follows:—

FACULTY OF ARTS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.
The Most Rev. R.S. Copleston, M.A., D.D., D.Litt.
The Hon'ble Mr. C. W. Küchler, C.I.E., M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Shams-ul-Ulama Ahmad.
C. Little, Esq., M.A.
The Hon'ble Babu Mahendranath Ray, M.A., B.L.
Babu Herambachandra Maitra, M.A.
The Hon'ble Babu Debaprasad Sarbadhikari, M.A., B.L.
Babu Adharchandra Mukerjee, M.A., B.L.
H. Stephen, Esq., M.A.
Dr. E. D. Ross, Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
H. R. James, Esq., M.A.
Rai Saheb Bhagabati Sahay, M.A., B.L.
C. Russell, Esq., M.A.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
J. N. Dass Gupta, Esq., B.A. (Oxon).
Shams-ul-Ulama Khan Bahadur Muhammad Yusoof, B.L.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
C. W. Peake, Esq., M.A.

The University of Calcutta & Acharya P.C Ray 1906-1944

Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.
Babu Binayendranath Sen, M.A.
Lt.-Col. D. C. Phillott, I.A.
Babu Haranchandra Banerjee, M.A., B.L.
The Hon'ble Sir Archdale Earle, K.C.I.E.
F. C. Turner, Esq., M.A.
Rev. Father E. O'Neill, S.J., B.A.
A. Thomson, Esq., M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Pandeya Ramavatara Sarma, Sahityacharyya, M.A.
Babu Dineschandra Sen, B.A.
Babu Lalitmohon Chatterjee, M.A.
Manohar Lal, Esq., M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguli, M.A., F.R.A.S.
Rev. J. A. Murray, M.A., B.D.
G. F. Shirras, Esq., M.A.
Jnanranjan Banerjee, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Baidyanath Narayan Sinha, M.A., B.L.
Babu Kalipada Basu, M.A.
E. E. Biss, Esq., M.A.
Shams-ul-Ulama Kamaluddin Ahmad, M.A.
J. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. P. C. Lyon, C.S.I., I.C.S.
W. Owston Smith, Esq., B.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
Rev. W. G. Brockway, B.A.
F. W. Sudmersen, Esq., B.A.
R. W. F. Shaw, Esq., M.A.
Rev. R. G. Milburn, B.A.

FACULTY OF SCIENCE.

The Hon'ble Mr. G. W. Küchler, C.I.E., M.A.
Dr. Nilratan Sircar, M.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Dr. Kedarnath Das, M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S C. Mahalanabis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., F.C.S., F.G.S., M.I.E.E.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. P. C. Ray, D.Sc., Ph.D., F.C.S.
I. H. Burkill, Esq., M.A., F.L.S.
Major L. Rogers, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.
C. W. Peake, Esq., M.A.
Babu Jnanchandra Ghosh, M.A.
E. P. Harrison, Esq., Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
H. H. Hayden, Esq., C.I.E., B.A., B.E., F.G.S.
E. R. Watson, Esq., M.A., B.Sc.
Capt. R. E. Lloyd, M.D., D.Sc., I.M.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1912.

No. 1.

THE 3RD FEBRUARY, 1912.

Present:

P. B. MUKHARJI, Esq., B.Sc., M.R.A.S., *in the Chair.*

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.	MAJOR L. ROGERS, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.
P. BRUHL, Esq., F.C.S., F.G.S., M.I.M.E.	BABU JNANCHANDRA GHOSH, M. A.
DR. P. C. RAY, D.Sc., PH.D., F.C.S.	

Mr P. Mukharji was voted to the Chair.

649. Rai Chunilal Basu, Bahadur, moved that the Hon'ble Mr. G. W. Kuchler, C.I.E., M.A., be re-elected Dean of the Faculty of Science for the year 1912.

Major Rogers seconded the motion which was carried unanimously.

(Confirmed.)

P. B. MUKHARJI,
Chairman.

G. THIBAUT,
Registrar.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1912.

No 5.

THE 10TH FEBRUARY, 1912.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, C.I.E., M.A.

THE HON'BLE BABU MANMNDRANATH RAY, M.A., B.L.

THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.

H. STEPHEN, ESQ., M.A.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

DR. E. D. ROSS, PH.D.

S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.

J. N. DAS GUPTA, ESQ., B.A.

RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.

MAJOR L. ROGERS, M.D., F.R.C.S., F.R.C.P., I.M.S.

C. W. PEAKE, ESQ., M.A.

BABU JNANCHANDRA GHOSH, M.A.

REV. FATHER E. O'NEILL, S.J., B.A.

BABU PHANINDRALAL GANGULI, M.A.,

653. Read a letter from the Joint Secretary to the Government of India, Department of Education, stating that in exercise of the powers conferred by Section V of Act II of 1857, the Governor-General in Council has been pleased to re-appoint the Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., to be Vice-Chancellor of the Calcutta University with effect from the 31st March, 1912.

ORDERED—

That the letter be recorded and that it be placed before the Senate at their next meeting.

654. The Minutes of the Syndicate, dated the 3rd February, 1912, were read and confirmed.

655. Read the Minutes of the Faculty of Arts, dated the 3rd February, 1912.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the proposed alteration in the age-entry of Praphullakumar Mookerjee in the records of the Bijbari H.E. School be sanctioned.

788. Read an endorsement from Dr. P. C. Ray, D.Sc., Ph.D., F.C.S., and Babu Chandrabhushan Bhaduri, B.A., University Lecturer in Chemistry, forwarding an application from certain unsuccessful candidates at the last M.A. and M.Sc. Examinations in Chemistry, who have been working in the Presidency College Chemical Laboratory since the publication of the results of the last M.A. and M.Sc. Examinations in the subject, praying that they may be permitted to appear at the M.A. or M.Sc. Examination, as the case may be, as non-collegiate students.

RESOLVED—

That the Syndicate recommend to the Senate that the following unsuccessful candidates at the last M.A. or M.Sc. Examination in Chemistry who have been regularly working in the Presidency College Chemical Laboratory be permitted to appear at the ensuing M.A. or M.Sc. Examination in Chemistry as non-collegiate students:—

M. A. Examination.

Abdur Rajak.
Sachindranath Sinha.
Ramani Mitra.
Debendranath Chatterjee.
Khagendranath Sen.

M. Sc. Examination.

Phanibhushan Sanyal.
Nirmalchandra Basu.
Dhirendranath Mukerjee.

789. Read a letter from the Inspector of Schools, Dacca Division, recommending, with reference to this office letter No. 8140, dated the 14th December, 1911, regarding the alteration in the age-entry of Sureswar Chaudhuri, a student of the Matriculation Class of the Raja Suryyakumar Institution, Rajbari, that in the circumstances mentioned therein the proposed change may be allowed to be made in the records of the above-named school.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1912.

No. 2.

THE 24TH FEBRUARY, 1912.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. N. L. HALLWARD, M.A.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.

SHAMS-UL-ULAMA AHMAD.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.

DR. NILRATAN SIRCAR, M.A., M.D.

THE HON'BLE BABU DEBAPRASAD SARBADHIKARI, M.A., B.L.

BABU ADHARCHANDRA MOOKHERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

H. STEPHEN, ESQ., M.A.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

DR. BRAJENDRANATH SIL, M.A., PH.D.

LT.-COL. F. J. DRURY, M.D., I.M.S.

P. MUKHERJI, ESQ., B.SC., M.R.A.S.

RAI SARES BHAGABATI SAHAY, M.A., B.L.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.

SHAMSUL-ULAMA MUHAMMAD YUSOOF, KHAN BAHADUR, B.L.

BABU LALMOHAN DAS, M.A., B.L.

RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A., A.M.I.C.E.

DR. P. C. RAY, D.SC., PH.D., F.C.S.

MAHAMAHOPADHYAY DR. SATISCHANDRA ACHARYYA, VIDYABHUSHAN, M.A., PH.D.

MAJOR L. ROGERS, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.

C. W. PEAKE, ESQ., M.A.

DR. G. THIBAUT, C.I.E., PH.D., D.SC.

BABU BINAYENDRANATH SEN, M.A.

BABU JNANCHANDRA GHOSH, M.A.

BABU HARANCHANDRA BANERJEE, M.A., B.L.

REV. FATHER R. O'NEILL, S.J., B.A.

A. THOMSON, ESQ., M.A.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.	Babu Baidyanath Narayan Sinha, M.A., B.L.
S. C. Bagchi, Esq. B.A., LL.B., LL.D.	Babu Kalipada Basu, M.A.
The Hon'ble Mr. G. H. B. Kenrick, K. C., LL.D.	E. E. Biss, Esq., M.A.
Babu Dineschandra Sen, B.A.	Shamsul-Ulama Kamaluddin Ahmad, M.A.
Babu Lalitmohan Chatterjee, M.A.	The Hon'ble Mr. B. K. Finnimore.
Manohar Lal, Esq., M.A.	J. R. Barrow, Esq., M.A.
Babu Phanindralal Ganguli, M.A.	Babu Bidhubhushan Goswami, M.A.
E. R. Watson, Esq., M.A., B.Sc.	W. Owston Smith, Esq., B.A
W. B. MacCabe, Esq.	The Hon'ble Nawab Saiyid Nawab Ali Chowdhury, Khan Bahadur.
J. B. Banerjee, Esq., M.A., B.L.	Rev. W. G. Brookway, B.A.
Babu Bimalmohan Majumdar, M.A., B.L.	F. W. Sudmersen, Esq., B.A.
	R. W. F. Shaw, Esq., M.A.
	Rev. R. C. Milburn, B.A.

1006. The Hon'ble the Vice-Chancellor, before proceeding with the business before the meeting, asked leave to perform the very pleasing duty of unveiling the portraits of the late Sir Romes Chunder Mitter, and the late Mr. W. C. Bonnerjee, two of the most noted amongst the many distinguished men who had associated themselves with the deliberations of the Senate in the Past. They all were proud of the late Sir Romes Chunder Mitter, who was one of the earliest alumni of the Calcutta University and the first Indian Graduate who was elevated to the Bench of the High Court where he eventually held the High office of Chief Justice of Bengal. Sir Romes Chunder was a Member of the Senate for many years and was President of the Faculty of Law from 1877 to 1879. In discharging the duties of the high offices which he was called upon to occupy Sir Romes Chunder displayed a sturdy independence of character, and a strong common sense which won for him the approbation of all.

The late Mr. W. C. Bonnerjee was closely connected with the University for nearly 25 years. He was President of the Faculty of Law and a Member of the Syndicate. The records of the University showed that inspite of his numerous engagements he was assiduous in the discharge of his duties in connection with the Senate and the Syndicate. He was the first Indian to hold the office of Standing Counsel to the Crown and his career altogether had been a remarkable one. In order that he might be always free to advance the legitimate aspirations of his countrymen, Mr. Bonnerjee declined the offer of a seat on the Bench of the High Court on several occasions. He was

University of Calcutta.

MINUTES

FOR THE YEAR

1912.

PART VI.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1912.

No. 11.

THE 5TH OCTOBER, 1912.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRABACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.,
Vice-Chancellor, in the Chair.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
C. LITTLE ESQ., M.A.
BABU MAHENDRANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
DR. DEBAPRASAD SARBADHIKARI, M.A., LL.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
H. E. JAMES, ESQ., M.A.
J. N. DAS GUPTA, ESQ., B.A.
DR. P. BRÜHL, D.Sc., M.I.E.E., F.C.S., F.G.S., F.A.S.B.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.
MAHAMAHOPADHYAYA DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
MAJOR L. ROGERS, C.I.E., M.D., F.R.C.S., F.R.C.P., I.M.S., F.A.S.B.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
F. C. TURNER, ESQ., M.A.
SIR RAJENDRANATH MOOKERJEE, K.C.I.E.
A. THOMSON, ESQ., M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
DR. GIRINDRANATH MUKHERJEE, B.A., M.D.
PANDYA RAMAVATARA SARMA, SAHITYACHRYYA, M.A.
BABU PHANINDRALAL GANGULY, M.A., B.L., F.R.A.S.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
G. F. SMIRHAM, ESQ., M.A.
E. R. WATSON, ESQ., M.A., B.Sc.
J. R. BANERJEE, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
BABU BAIDYANATH NARAYAN SINHA, M.A., B.L.
BABU KALIPADA BASU M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

EVAN E. BISS, ESQ., M.A.	ABDUL MAJID, ESQ., B.A., LL.B.
SHAMS-UL-ULAMA KAMALUDDIN AHMAD, M.A.	NAWAB SAIYID NAWAB ALI CHAUDHURI, KHAN BAHADUR.
BABU BIDHUBHUSHAN GOSWAMI, M.A.	F. W. SUDMERSEN, ESQ., B.A.
	LT.-COL. B. H. DEANE, M.B., I.M.S.

4329. Before proceeding to the business on the agenda paper Mr. Findlay Shirras with the permission of the meeting moved the following resolution :—

"That the Senate records its appreciation of the services of Dr. Denison Ross, Dr. Debaprasad Sarbadhikari and Dr. P. C. Ray in so ably representing the University of Calcutta at the recent Congress of Universities in London."

The mover said "It is perhaps superfluous for me to add a single word for the purpose of either amplifying or explaining this resolution. We watched with interest and with no small amount of pride the able way in which Dr. Debaprasad Sarbadhikari and Dr. P. C. Ray represented our University of Calcutta. We followed with interest their speeches on Indian Education and we admired their remarks when they were referring to the resonant calls for higher education. I need not remind you, Mr. Vice-Chancellor and gentlemen, that Dr. P. C. Ray received high eulogies from some members of the Royal Society while Dr. Debaprasad Sarbadhikari was honoured with a Degree of LL.D. of two of the most ancient Universities. In honouring our delegates they have honoured ourselves. It behoves us, therefore, to put on record our grateful thanks to our delegates who spent both time and money in fulfilling most satisfactorily on behalf of this University what was a peculiarly difficult task."

Rai Chunilal Basu, Bahadur, in seconding the motion desired to associate himself with the remarks that had fallen from the mover

Mr. J. R. Banerjee said that the able manner in which the Delegates set forth the claims of the Indian Universities before the people of the west deserved high encomium and it was but meet and proper that the Senate of the Calcutta University should record their appreciation of the valuable work done by the Delegates to whom they owe a deep debt of gratitude. He had therefore very great pleasure in supporting the motion.

The resolution was then formally put to the meeting by the Hon'ble the Vice-Chancellor and was carried by acclamation.

4330. Dr. Debaprasad Sarbadhikari moved, on behalf of the Syndicate, that subject to the sanction of the Governor-General

University of Calcutta

MINUTES

FOR THE YEAR

1913.

PART I

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Marie D'castro (who passed the European H.S. Examination, Burma, in December 1907 in English, Artithmetic, Algebra, Geography, Co-ordinate Geometry, Domestic Economy and Second Language) and Blanche Court (who passed the European H. S. Examination, Burma, in December 1911 with English, Arthmetic, Algebra, Geometry, Geography, Domestic Economy, History and French as her subjects) may be permitted to appear at the ensuing I.A. Examination as non-collegiate students.

RESOLVED—

That the Syndicate recommend to the Senate that the applicants be permitted to appear at the ensuing I.A. Examination as non-collegiate students.

40. Read a letter from the Inspector of Schools, Presidency Division, forwarding, in reference to this Office letter No. 2203, dated the 1st October, 1912, a statement giving necessary particulars in connection with the proposals for correction of the age-entries of the following students belonging to the Kalighat H. E. School and recommending that for the purpose of admission to the Matriculation Examination, the ages or birth dates of the boys given in the affidavits sworn by their respective guardians may be accepted.

1. Prakaschandra Mitra.
2. Prabhatranjan Das.
3. Binodbihari Basu.
4. Susilkumar Raychandhuri,
5. Mukulmohan Raychandhuri.

RESOLVED—

That the recommendation made in the above letter be accepted.

41. Read a letter from Mr. G. F. Shirras, reporting that the thesis, entitled, "Some account of the Principal Indian Manufactures," which was submitted for the Griffith Memorial Prize for the year 1911, does not evince sufficient merit to justify the award of the Prize.

RESOLVED—

That the Griffith Memorial Prize for 1911 be not awarded.

42. The Registrar placed before the Syndicate the following thesis for the Griffith Memorial Prize for the year 1912 :—

(*a*) Condensation of Ketones with phenols.

The University of Calcutta & Acharya P.C.Ray 1906-1944

(*b*) On the Anatomy of Atopos (Parapadangia) Gravelyi, new species and type of a new sub-genus.

(*c*) The History of Hindu Medicine from the Vedic ages to the 19th century.

(*d*) A Problem in endless dimensions.

(*e*) Isomeric Allylamines.

(*f*) On a new crystalline copper ferrocyanide compound.

(*g*) On variation of crystalline form with temperature of a copper potassium ferrocyanide compound.

RESOLVED—

That the undermentioned gentlemen be appointed to examine and report on the thesis or theses named against each :—

Dr. P. C. Ray, C.I.E., D.Sc. Ph.D. F.C.S.	Condensation of Ketones with phenols. Isomeric Allylamines. On a new crystalline copper ferrocyanide compound
Professor E. R. Watson, M.A., B.Sc.	On variation of crystalline form with temperature of a copper potassium ferrocyanide compound
S. W. Kemp, Esq., B.A.	On the Anatomy of Atopos (Parapadangia) Gravelyi, a new species and type of a new sub-genus.
Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.	The History of Hindu Medicine from the Vedic ages to the 19th century.
Dr. C. E. Cullis, Ph.D.	A Problem in endless dimensions.

43. Read a letter from the Provincial Superior of the Loreto Nuns in India, requesting that, in consideration of her long service in the Loreto House, Miss Lucy Knight, who passed the last B.A. Examination with distinction and who has been permitted to appear at the ensuing B.T. Examination as a non-collegiate student, may be exempted from the practical portion of the B.T. Examination.

ORDERED—

That the writer of the letter be informed that under the Regulations of the University it is not possible to comply with her request.

44. Read an application from H. Rawling Smith, praying that he may be permitted to appear at the ensuing Matriculation Examination in French and Mathematics as a private student as he did not take up Mathematics and Second Language at the Senior Cambridge Local Examination.

128. Read an endorsement from the Principal, Scottish Churches College, forwarding, with his recommendation, an application from Susilchandra De, who completed his attendance at lectures during sessions 1910-11 and 1911-12 but who could not appear last year owing to illness, requesting permission to appear at the ensuing M.A. Examination in Pure Mathematics as a regular student of the aforesaid College.

ORDERED—

That the application be granted.

129. Read a letter from the Offg. Addl. Inspector of Schools, Tirhut Division, requesting to be supplied with a copy of the University Regulations for use in his office.

ORDERED—

That a spare copy of the University Regulations, if available, be sent to the Addl. Inspector of Schools, Tirhut Division.

130. Read an application from Srischandra Sen, who after serving as a teacher in Kustia H. E. School from March 1905 to August, 1912, has been working as such in the Mitra Institution, Bhowanipur, since August last, requesting permission to appear at the next B.A. Examination as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing B.A. Examination as a non-collegiate student.

131. Read a petition from Babu Santoshchandra Sen, praying that in the circumstances therein stated the case of his son, Mohitmohan Sen, a student in the Matriculation Class of the Monghyr Zila School, may now be favourably reconsidered with a view to enable the boy to go up for the ensuing Matriculation Examination.

ORDERED—

That the application be granted.

132. Read a memo. from the Director of Public Instruction, Bengal, forwarding, with his recommendation that the Victoria Institution may be provisionally recognised, a letter from the Inspector of Schools, Presidency Division, and a

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

To be recorded.

152. Read a letter from the Principal, Scottish Churches Colleges, reporting the following changes in the staff of the College :—

Mr. Pramathanath Banerjee, M.A. (Calss II) has been appointed in place of Professor Kausikinath Bhattacharyya, M.A., who left the College in September last.

Mr. Abinaschandra Rudra, M.Sc., has been appointed Demonstrator in Physics in place of Mr. Satikrishna Sen, B.A., who gave up his work as Demonstrator in Physics.

Rev. A. E. Davies, B.A., and Rev. J. Watson, B.A., joined the staff of the College on 25th November, 1912.

ORDERED—

To be recorded.

153. Read a letter from Dr. P. C. Ray, stating that he has carefully gone through the thesis submitted by Babu Anukulchandra Sarkar, Premchand Roychand Scholar, and recommending that the aforesaid scholarship may be renewed for the next year.

ORDERED—

That the report be adopted and that Rs. 800, the balance of the studentship for 1910, be paid to Babu Anukulchandra Sarkar.

154. Read a letter from Babu Lalitmohan Mukerjee, expressing his inability to accept the appointment as a Member of the Board of Examiners for the ensuing Final Examination in Law.

ORDERED—

That Babu Brajalal Chakrabarti, M.A., B.L., be appointed a Member of the Board of Examiners for the Final Law Examination in the place of Babu Lalitmohan Mookerjee, resigned.

155. Read an endorsement from the Principal, Medical College, Calcutta, forwarding an application from Satindrakumar Sen, Ajitkumar Sen, Sreepatikumar and Kanailal Basu, students in the Third-year Class of the aforesaid College, who passed the B.Sc. Examination, praying that as they went through a course of Organic Chemistry in the B.Sc. Class

The University of Calcutta & Acharya P.C.Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR 1913.

No. 2.

THE 25TH JANUARY, 1913.

(SPECIAL CONVOCATION)

HIS EXCELLENCY THE RIGHT HON'BLE THOMAS GIBSON BARON CARMICHAEL OF SKIRLING, G.C.I.E., K.C.M.G., M.A., *Rector*, *in the Chair*.

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRA-RACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor*.

EX-OFFICIO FELLOWS.

THE HON'BLE SIR LAURENCE JENKINS, KT., K.C.I.E., K.C., B.A., *Chief Justice of Bengal*.

THE HON'BLE SIR FREDERICK WILLIAM DUKE, K.C.I.E., C.S.I., I.C.S.

THE HON'BLE MR. P. C. LYON, C.S.I., I.C.S.

THE HON'BLE MR. G. W. KÜCHLER, C.I.E., M.A., *Director of Public Instruction, Bengal*.

J. R. CUNNINGHAM, ESQ., M.A., *Director of Public Instruction, Assam*.

HONORARY FELLOWS.

THE HON'BLE MAHARAJA MANINDRA-CHANDRA NANDI OF COSSIMBAZAR.

DR. P. K. RAY, D.Sc.

NAWAB SERAJUL ISLAM, KHAN BAHADUR, B.L.

RAJA PYARIMOHAN MOOKERJEE, C.S.I., M.A., B.L.

BABU SARADACHARAN MITRA, M.A., B.L.

THE REV. FATHER A. NEUT, S.J.

NAWAB A. F. M. ABDUR RAHMAN, KHAN BAHADUR.

BABU GANESHCHANDRA CHUNDER.

NAWABZADA ASHRAFUDDIN AHMED, KHAN BAHADUR.

BABU RAMCHARAN MITRA, M.A., B.L.

MAULAVI ABDUL KARIM, B.A.

SHAMS-UL-ULAMA ATAUR RAHMAN.

W. H. ARDEN WOOD, ESQ., M.A., F.C.S., F.R.G.S.

RAI JATINDRANATH CHAUDHURI, M.A., B.L.

BABU JYOTIPRASAD SARVADHIKARI, M.A., B.L.

ORDINARY FELLOWS.

SIR GOORUDO DASS BANERJEE, KT., M.A., D.L., PH.D.

BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.

SHAMS-UL-ULAMA AHMAD.

The University of Calcutta & Acharya P.C.Ray 1906-1944

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
BABU HEMACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE DR. DEBAPRAS SARBADHIKARI, M.A., LL.D.
BABU BHUPENDRANATH BASU, M.A., B.L.
BABU ADHARCHANDRA MOOKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
B. HEATON, ESQ.
COL. G. F. A. HARRIS, C.S.I., M.D., F.R.C.P., I.M.S.
DR. KEDARNATH DAS, M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
C. RUSSELL, ESQ., M.A.
RAI SAHEB BHAGABATI SAHAY, M.A., B.L.
P. B. MUKHARJI, ESQ., B.SC., M.R.A.S.
J. N. DAS GUPTA, ESQ., B.A. (OXON).
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
SHAMS-UL-ULAMA KHAN BAHADUR MUHAMMAD YUSOOF, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
LALMOHAN DAS, ESQ., M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A., A.M.I.C.E.
DR. P. C. RAY, C.I.E., D.SC., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
MAJOR L. ROGERS, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.
C. W. PEAKE, ESQ., M.A.
DR. G. THIBAUT, C.I.E., PH.D., D.SC.
REV. S. L. THOMPSON, B.A.
BABU JNANCHANDRA GHOSH, M.A.
BABU HARANCHANDRA BANERJEE, M.A., B.L.
THE HON'BLE MR. JUSTICE H. L. STEPHEN, LL.M.
F. C. TURNER, ESQ., M.A.
SIR RAJENDRANATH MOOKERJEE, K.C.I.E.
A. THOMSON, ESQ., M.A.
RAI KEMCHANDRA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., SC.D., F.R.S.E.
DR. GIRINDRANATH MUKHERJEE, B.A., M.D.
DR. S. C. BANERJI, B.A., LL.B., LL.D.
PANDITA RAMAVATARA SARMA, SAHITYACHARYYA, M.A.
BABU DINESHCHANDRA SEN, B.A.
R. NATHAN, ESQ., C.S.I., C.I.E., R.A.
BABU LALITMOHAN CHATTERJEE, M.A.
BABU PHANINDRALAL GANGULI, M.A., B.L.
LT.-COL. J. T. CALVERT, M.B., D.P.H., M.R.C.P., I.M.S.
E. H. ROBERTON, ESQ., B.A., M.SC., M.I.M.E., F.G.S.
G. F. SHIRRAS, ESQ., M.A.
W. H. MACCABE, ESQ.
LT.-COL. C. H. M. ORREN, M.D., F.R.C.S., I.M.S.
JNANRANJAN BANERJEE, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
BABU BAIDYANATH NARAYAN SIKDAR, M.A., B.L.
BABU KALIPADA BASU, M.A.
E. K. DISS, ESQ., M.A.
SHAMS-UL-ULAMA KAMALUD-DIN AHMAD, M.A.
THE HON'BLE MR. D. K. FINNIMORE,
J. BARROW, ESQ., M.A.

The University of Calcutta & Acharya P C Ray 1906-1944

Babu Bidhubhushan Goswami, M.A.	F. W. Sudmersen, Esq., B.A.
Abul Majid, Esq., B.A., LL.B.	R. W. F. Shaw, Esq., M.A.
W. Owston Smith, Esq., B.A.	Jatindranath Mitra, Esq., M.A.
The Hon'ble Nawab Sayed Nawab Ali Chaudhuri, Khan Bahadur.	Capt. C. L. Peart, I.A.
Rev. W. G. Brockway, B.A.	The Hon'ble Mr. Justice H. Holmwood, I.C.S.

260. The Senate was convened for conferring the Degree of Doctor in the Faculties of Arts, Science and Law *Honoris Causa*.

Owing to the unavoidable absence of His Excellency the Chancellor, His Excellency the Rector presided on the occasion.

The Ex-officio Fellows, the Honorary Fellows and the Ordinary Fellows of the University who had previously signified their intention of attending the Convocation, assembled in academic costume, in the Senate House, College Square, at 2-30 p.m. At 2-40 p.m. they proceeded to the Entrance Hall and took their places in processional order according to the list previously supplied to them.

At 2-45 p.m. the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar received His Excellency, the Rector, at the foot of the staircase and conducted him to the Entrance Hall where he was received by the Fellows. He then proceeded to the south room in the Entrance Hall where he robed.

A procession was then formed which entered the Hall in the following order :—

The Registrar

Members of the Syndicate

arranged two & two in order of seniority

His Excellency the Rector.

The Hon'ble the Vice-Chancellor

Ex-officio Fellows, arranged two and two in order of seniority

Honorary Fellows, arranged two and two in order of seniority

Ordinary Fellows, arranged two and two in order of seniority.

Visitors stood up as the procession entered the Hall and remained standing until His Excellency the Rector had taken his seat on the dais.

The Hon'ble Sir Lawrence Jenkins, Kt., K.C.I.E., B.A., CHIEF JUSTICE OF BENGAL, occupied seat on the dais to the right of His Excellency the Rector.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Annual Meeting of the Senate

FOR THE YEAR 1913.

No. 3.

THE 25TH JANUARY, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRARACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, C.I.E., M.A.
J. R. CUNNINGHAM, ESQ., M.A.
SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.
SHAMS-UL-ULAMA AHMAD.
THE HON'BLE BABU MANENDRANATH RAY, M.A., B.L.
RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
THE HON'BLE DR. DEBAPRASAD SARVADHIKARI, M.A., LL.D.
BABU BHUPENDRANATH BASU, M.A., B.L.
BABU ADHARCHANDRA MOOKERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
H. STEPHEN, ESQ., M.A.
COL. G. F. A. HARRIS, C.S.I., M.D., F.R.C.P., I.M.S.
DR. KEDARNATH DAS, M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
C. RUSSELL, ESQ., M.A.
RAI SAHIB BHAGABATI SAHAY, M.A., B.L.
P. MUKHARJI, ESQ., B.SC., M.R.A.S.
J. N. DAS GUPTA, ESQ., B. A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
SHAMS-UL-ULAMA MUHAMMUD YUSOOF, KHAN BAHADUR, B.L.
RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.
BABU LALMOHAN DAS, M.A., B.L.
RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A., A.M.I.C.E.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.

Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

Major L. Rogers, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.

C. W. Peake, Esq., M.A.

Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.

Rev. S. L. Thompson, B.A.

Babu Jnanchandra Ghosh, M.A.

Babu Haranchandra Banerjee, M.A., B.L.

The Hon'ble Mr. Justice H. L. Stephen, LL.M.

F. C. Turner, Esq., M.A.

Sir Rajendranath Mookerjee, K.C.I.E.

A. Thomson, Esq., M.A.

Rai Kunudibiharta Banerjee Bahadur, M.A.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Dr. Girindranath Mukherjee, B.A., M.D.

Dr. S. C. Sanghi, B.A., LL.B., LL.D.

Pandeya Ramavatara Sarma, Sahityacharyya, M.A.

R. Nathan, Esq., C.S.I., C.I.E., B.A.

Babu Lalitmohan Chatterjee, M.A.

Babu Phanindralal Ganguli, M.A., B.L., F.R.A.S.

Lt.-Col. J. T. Calvert, M.B. M.R.C.P., D.P.H., I.M.S.

E. H. Robertson, Esq., B.A., M.Sc. M.I.M.E., F.G.S.

G. F. Shirran, Esq., M.A.

W. B. MacCabe, Esq.

Lt. Col. C. R. M. Green, M.D. F.R.C.S., I.M.S.

Jnanranjan Banerjee, Esq., M.A., B.L.

Babu Brajmohan Majumdar, M.A., B.L.

Babu Baidyanath Narayan Singha, M.A., B.L.

Babu Kalipada Basu, M.A.

K. K. Bose, Esq., M.A.

Shams-ul-Ulama Kamaludin Ahmad, M.A.

The Hon'ble Mr. B. K. Finnimore.

J. Darrow, Esq., M.A.

Babu Bidhumukhan Goswami, M.A.

Abdul Majid, Esq., B.A., LL.B.

W. Owston Smith, Esq., B.A.

The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.

Rev. W. G. Brockway, B.A.

F. W. Sudmersen, Esq., B.A.

R. W. F. Shaw, Esq., M.A.

J. N. Mitra, Esq., M.A.

Capt. C. L. Peart, I.A.

The Hon'ble Mr. Justice H. Holmwood, I.C.S.

261. The Senate first proceeded to elect four representatives on the Syndicate for the year 1913, of whom two at least had to be either Heads of or Professors in Colleges affiliated to this University.

The following persons had been nominated for election :—

Name.	Proposed by.
Dr. Kedarnath Das, M.D. ...	Rai Kailaschandra Basu, Bahadur, C.I.E., L.M.S.
Dr. E. D. Ross, Ph.D. ...	Rai Krishnachandra Banerjee, Bahadur, B.A.
Rai Krishnachandra Banerjee, Bahadur, B.A., A.M.I.C.E.	Babu Jnanchandra Ghosh, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

fundamental considerations touching the physical basis of race'; 'Opening Address before the Universal Races Congress'; 'Theory of Numbers'; 'Equation of Digits'; 'The Neo Romantic movement in Literature'; 'Keat's Mind and Art.'

Mr. J. R. Banerjee seconded the motion which was carried unanimously.

263. The Hon'ble Dr. Dehaprasad Sarbadhikari moved on behalf of the Syndicate that with effect from October, 1913, Mr. G. Findlay Shirras be appointed University Reader and that the subject in which he would be required to deliver a course of lectures be "Some recent developments in Indian Currency and Finance."

The motion which was seconded by Mr. J. R. Banerjee was put and agreed to.

264. Mr. Stephen moved on behalf of the Syndicate that with effect from October, 1913, Professor J. N. Das Gupta, B.A. (Oxon), be appointed University Reader to deliver a course of lectures on "Bengal in the Sixteenth Century."

Shamsul Ulama Muhammud Yusoof, Khan Bahadur, seconded the motion which was carried.

265. On a motion by the Hon'ble Dr. Dehaprasad Sarbadhikari seconded by Babu Jnanchandra Ghosh it was resolved—

That the Government of India be moved to sanction the additional affiliation of the Daulatpur Hidu Academy to the B.A. Pass standard in English, Philosophy, History, Sanskrit, Vernacular Composition in Bengali and Mathematics, with effect from the commencement of the ensuing session.

266. Mr. Stephen moved and Babu Jnanchandra Ghosh seconded that in addition to the affiliation already granted to the Serampur College, it be further affiliated in Chemistry to the I.A. standard, with effect from the commencement of the next session.

The motion was put and agreed to.

267. Mr. Peake moved on behalf of the Syndicate that in addition to the affiliation already granted to the Rangoon College, it be further affiliated in Physics to the B.A. and B.Sc. Pass standard.

Mr. J. R. Banerjee seconded the motion which was carried.

268. The Senate then proceeded to distribute the Fellows among the different Faculties in accordance with section 2, Chapter III of the Regulations. Separate voting papers containing the names of persons proposed by the Syndicate for the different Faculties were supplied to the Members present. They had

also before them a list of additional names proposed by the Members of Senate for the Faculties of Arts and Law. Before proceeding to the ballot, the Hon'ble the Vice-Chancellor requested the members to score through such names on the voting papers as they did not wish to vote for, and in the cases of the Faculties of Arts and Law, to add to the voting papers such name from the additional list as they intended to give their votes to.

The names proposed by the Syndicate and the additional names proposed by the Members of the Senate were as follows:—

FACULTY OF ARTS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastrabachaspati, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.
The Hon'ble Mr. G. W. Küchler, C.I.E., M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
Shams-ul-Ulama Ahmad.
C. Little, Esq., M.A.
The Hon'ble Babu Mahendranath Ray, M.A., B.L.
Babu Herambachandra Maitra, M.A.
Babu Ramendrasundar Trivedi, M.A.
The Hon'ble Dr. Ochaprasad Sarbadhikari, M.A., LL.D.
Babu Adharchandra Mookerjee, M.A., B.L.
H. Stephen, Esq., M.A.
Dr. E. D. Ross, Ph.D., C.I.E.
Madhusudan Das, Esq., C.I.E., M.A., B.L.
Dr. Brajendranath Sil, M.A., Ph.D.
H. R. James, Esq., M.A.
C. Russell, Esq., M.A.
Rai Saheb Bhagabati Sahay, M.A., B.L.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
J. N. Das Gupta, Esq., B.A.
Shams-ul-Ulama Khan Bahadur Muhammad Yusoof, B.L.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
C. W. Peake, Esq., M.A.
Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.
Babu Binayendranath Sen, M.A.
Rev. S. L. Thompson, B.A.
Babu Haranchandra Banerjee, M.A., B.L.
F. C. Turner, Esq., M.A.
Rev. Father E. O'Neill, S.J., B.A.
A. Thomson, Esq., M.A.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
W. A. J. Archbold, Esq., M.A., LL.B.
Shamsul-Ulama Abu Nasr Md. Wahced, M.A.
Pandeya Ramavatara Sarma, Sahityacharyya, M.A.
Babu Dineschandra Sen, B.A.
R. Nathan, Esq., C.S.I., C.I.E., B.A., I.C.S.
Babu Lalitmohan Chatterjee, M.A.
Manohar Lal, Esq., M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguly, M.A., B.L., F.R.A.S.
G. F. Shirras, Esq., M.A.
Jnanmanjan Banerjee, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Baidyanath Narayan Sinha, M.A., B.L.
Babu Kalipada Basu, M.A.
E. E. Biss, Esq., M.A.
Shams-ul-Ulma Kamaluddin Ahmed, M.A.
J. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. P. C. Lyon, C.S.I., I.C.S.
W. Owston Smith, Esq., B.A.
Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
Rev. W. G. Brockway, B.A.
F. W. Sudmersen, Esq., B.A.
R. W. F. Shaw, Esq., M.A.
Rev. R. G. Millburn, B.A.
Capt. G. L. Peart, I.A.

ADDITIONAL NAME PROPOSED.

Name.	*Proposed by.*
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.	Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

FACULTY OF SCIENCE.

The Hon'ble Mr. G. W. Kuchler, C.I.E., M.A.
The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., F.C.S., F.G.S., M.I.E.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Major L. Rogers, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 5.

THE 1ST FEBRUARY, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRA-BACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. G. W. KUCHLER, C.I.E., M.A.
THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. DEVAPRASAD SARBADHIKARI, M.A., B.L., LL.D.
H. STEPHEN, ESQ., M.A.
H. HEATON, ESQ.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D., F.A.S.B.
BABU JNANCHANDRA GHOSH, M.A.
BABU PHANINDRALAL GANGULI, M.A., B.L., F.R.A.S.
G. F. SHIRRAS, ESQ., M.A.
J. R. BANERJEE, ESQ., M.A., B.L.
BABU BRAJMOHAN MAJUMDAR, M.A., B.L.

394. The Minutes of the Syndicate, dated the 25th January, 1913, were read and confirmed.

395. Read a memo. from the Assistant Secretary to the Government of India, Department of Education, requesting that on the death of a Companion of the Imperial Service Order belonging to the Calcutta University, a report of the occurrence giving the date and place of death may be submitted to the Government of India in the Foreign Department.

ORDERED—

To be recorded.

396. Read a letter from the Secretary to the Government of Bengal, General Department, conveying the sanction of the

The University of Calcutta & Acharya P.C.Ray 1906-1944

413. Read an application from S. Rangarow, who passed the B.A. and the L. T. Examinations of the Madras University in 1907 and 1912, respectively, requesting that as the M.A. degree Examination of the aforesaid University will be abolished from 1914, he may be allowed to appear at the M.A. Examination of this University in Mathematics as a non-collegiate student.

ORDERED—

That a reference be made to the Registrar, Madras University, to ascertain whether it is in contemplation to abolish the M.A. Examination of that University.

414. Read an endorsement from Dr. P. C. Ray, Presidency College, forwarding, with his remarks, an application from Sailendrakumar Majumdar, an unsuccessful candidate at the last M.Sc. Examination in Chemistry who had been a student in the Dacca College for 2 years, requesting permission to appear at the ensuing M.Sc. Examination as a non-collegiate student with Chemistry as his subject.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing M.Sc. Examination in Chemistry as a non-collegiate student.

415. Read an application from Nirmalchandra Sengupta, who passed the B.A. Examination in 1907, requesting permission to appear at the next M.A. Examination in History as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in History as a non-collegiate student.

416. Read an application from Kanailal Bandyopadhyay, who passed the B.A. Examination in 1908, requesting permission to appear at the forthcoming M.A. Examination in Political Economy and Political Philosophy as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing M.A. Examination in Political Economy and Political Philosophy as a non-collegiate student.

417. Read an application from Basantakumar Chatterjee,

University of Calcutta

MINUTES

FOR THE YEAR

1913.

PART II.

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

meetings of its Legislative Council and that he be informed that as such an arrangement is harmful to the interests of the College and is calculated to distrub its regular work the Syndicate will be glad if he will represent to Government the undesirability of continuing the arrangement for any further period.

763. Read a letter from Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S., suggesting that out of Rs. 1,00,000 set apart for the purphase of books for the University Library as mentioned in the Annual Report of the Syndicate on the University Library for the year 1912 a considerable portion of this sum should be ear-marked for the purchase of scientific books and periodicals.

ORDERED—

That Dr. P. C. Ray be informed that in utilising the above sum the claims of Science will not be forgotten.

764. Read a letter from the Principal, Patna College, requesting to be supplied with Rs. 800 in advance to enable him to make the preliminary arrangements in connection with the ensuing University Examinations to be held at Patna; also requesting that sum of Rs. 100 may be sanctioned for purchase of *pardas* to cover the Gymnasium where the University Examinations are partly to be held, as some of the College rooms have been converted into a Council Chamber of His Honour the Lieutenant-Governor of Bihar and Orissa.

ORDERED—

That a copy of the letter be forwarded to the Director of Public Instruction, Bihar and Orissa, and that he be informed that as the University has no funds at its disposal to meet the charges incurred for conducting its Examinations at Mofasil Centres (except the bare contingencies) the Syndicate hope that the Local Government will provide funds for meeting the expenses that will be necessary for holding the University Examinations at Bankipur, otherwise the Syndicate may be driven to abolish the Examination Centre at Bankipur.

765. Read an application from Biswoswar Das, who passed the B.A. Examination in 1892, requesting permission to appear at the next M.A. Examination in English, Group A, as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in English, Group A, as a non-collegiate student.

University of Calcutta

MINUTES

FOR THE YEAR

1913

PART III

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 14.

THE 12TH APRIL, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SANYASHACHARYAYI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE DR. DEVAPRASAD SARBADHIKARI, M.A., LL.D.
H. STEPHEN, ESQ., M.A.
E. HEATON, ESQ.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. G. THIBAUT, C.I.E., PH.D., D.SC.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEE, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. H. H. DRAKE, M.B., D.P.H., I.M.S.

1351. The Minutes of the Syndicate, dated the 5th April, 1913, were read and confirmed.

1352. Read the following Report on the Indian Association for the Cultivation of Science, for 1912-13 :—

Report on the Indian Association for the Cultivation of Science, for 1912-13.

Inspected on the 7th December, 1912.

The Association is affiliated to the University in Botany up to the B.A. and B.Sc. standards.

The University of Calcutta & Acharya P C.Ray 1906-1944

FINAL M.B. EXAMINATION.

	Rs.
Fee for setting a paper	80-0-0
Fee for setting a practical paper	80-0-0
Fee for examining a paper	2-0-0
Fee for Practical Examination of each candidate ...	4-0-0
Fee for Oral Examination of each candidate ...	4-0-0

1382. Read a letter from the Secretary to the Government of Bengal, General Department, forwarding a copy of correspondence between the aforesaid Government and the Government of Bihar and Orissa, regarding the award of the Elliot Prize for Scientific Research to natives of Bihar and Orissa, including Europeans and Anglo-Indians domiciled in that province.

ORDERED—

To be recorded.

1383. Read an endorsement from the Principal, Presidency College, Calcutta, forwarding, with his recommendation and that of Dr. P. C. Ray, an application from Aswinikumar Datta, who passed the B.Sc. Examination in 1912 with Honours in Chemistry, praying that he may be allowed to proceed to the M.Sc. Examination on his attending only 75 per cent. of the lectures in Physical Chemistry as he proposes to offer a thesis in Physical Chemistry in lieu of examination in the other two branches of Chemistry.

ORDERED—

That the application be granted.

1384. Read an endorsement from the Principal, Presidency College, Calcutta, forwarding, with his recommendation supported by that of Dr. P. C. Ray, an application from Debendranath Bhattacharyya, who passed the B. Sc. Examination with Honours in Chemistry, praying that he may be allowed to appear at the M. Sc. Examination on his attending only 75 per cent. of the lectures in Physical Chemistry as he proposes to offer a thesis in Physical Chemistry in lieu of examination in the other two branches of Chemistry.

ORDERED—

That the application be granted.

1385. Read a letter from the Honorary Secretary, Lister Memorial Committee, forwarding in behalf of his Committee an

1435. The Hon'ble Dr. Sarbadhikari moved, on behalf of the Syndicate, that the Governor-General in Council be moved to sanction the appointment of Dr. P. C. Mitter, M.A., Ph.D., as University Lecturer in Chemistry for two years with effect from the 7th April, 1913.

The mover said that Dr. Mitter having passed the M.A. Examination of this University proceeded to Europe and distinguished himself at the University of Berlin, where he obtained the Degree of Doctor of Philosophy. Chemistry was the subject in which Dr. Mitter had specialised. He had recently visited on behalf of this University all the principal Chemical Laboratories in India and had submitted a valuable report dealing with the requirements of a suitable Chemical Laboratory in connection with the proposed College of Science.

Dr. P. C. Ray seconded the motion which was carried unanimously.

1436. Mr. Das Gupta moved, on behalf of the Syndicate, that Professor R. N. Gilchrist, M.A., be appointed University Lecturer on Political Economy and Political Philosophy for the session 1913-14, to deliver a course of lectures on the Comparative Study of Social Institutions.

The motion which was seconded by Khan Bahadur Mahammad Yusoof was carried unanimously.

1437. Mr. J. R. Banerjee moved, on behalf of the Syndicate, that in addition to the affiliation already granted to the Anandamohan College, Mymensingh, it be further affiliated to the B.A. Pass standard in the following subjects with effect from the commencement of the ensuing session :—

English, History, Philosophy, Sanskrit, Persian and Vernacular Composition.

In placing the above motion before the Senate the mover referred to the features of the College noticed in the special report of the University Inspectors and emphasised the need for a first grade College at Mymensingh. He also spoke of the appropriateness of raising the status of an institution which was associated with the name of an eminent educationist like the late Mr. Anandamohan Bose.

The motion was seconded by Rai Chunilal Basu, Bahadur.

Mr. Stidmersen asked for further information about the accommodation and enquired if the local authorities would be able to raise Rs. 50,000 from private sources.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 19.

THE 17TH MAY, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRABACHASPATI, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE DR. DEVAPRASAD SARVA-DHIKARI, M.A., B.L., LL.D.
H. STEPHEN, Esq., M.A.
B. HEATON, Esq.
DR. E. D. ROSS, C.I.E., Ph.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, Esq., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
J. R. BANERJEE, Esq., M.A., B.L.
BABU HIRALMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. B. H. DEARE, M.B., I.M.S.

1827. The Minutes of the Syndicate, dated the 10th May, 1913, were read and confirmed.

1828. Read the Proceedings of the Board of Studies in Engineering, dated the 6th May, 1913.

ORDERED—

To be recorded.

RESOLVED—

That the undermentioned gentlemen be appointed as Examiners to conduct the ensuing I.E. and B.E. Examinations :—

I. E. EXAMINATION.

PRESIDENT & MODERATOR. *Dean of the Faculty of Engineering, Ex-Officio.*

College, Bankura, it be further affiliated in Physics to the I. A. and I. Sc. standards with effect from the commencement of the ensuing session.

1878. Read a memo. from the Superintending Engineer, Calcutta University Buildings Extension, forwarding an estimate for lowering the stone setts at the gateways of the Darbhanga Library Building.

ORDERED—

That the matter be referred to the Hon'ble Dr. Sarbadhikari and Mr. Heaton for opinion.

1879. Read an application from Sudhirchandra Mustaphi, a candidate at the recent B. Sc. Examination (Roll Cal. No. 172), praying that in consideration of the difficulties under which he worked at the Practical Examination Chemistry held at the Presidency College, some marks may be awarded to him in the Volumetric Analysis, which he was compelled to leave unfinished for want of time.

ORDERED—

That the application be sent in original to Dr. P. C. Ray for his remarks.

1880. The Offg. Registrar reported that Dr. B. C. Ghosh, one of the Examiners in Physics at the Preliminary Scientific M. B. Examination was seriously ill and asked the Syndicate to appoint another Examiner in the place of Dr. Ghosh.

ORDERED—

That Dr. D. N. Mallik, be asked to look over the answer papers in theoretical Physics of the Preliminary Scientific M. B. candidates originally allotted to Dr. B. C. Ghosh.

1881. Read the following :—

"FROM

THE BOARD OF EXAMINERS FOR THE FINAL M. B. EXAMINATION,

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Senate House, the 16th May, 1913.

SIR,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the Final M. B. Examination held in March, 1913.

University of Calcutta

MINUTES

FOR THE YEAR

1913

PART IV

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

MINUTES OF THE SYNDICATE

FOR THE YEAR 1913.

No. 21.

THE 31ST MAY, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRABACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.,
Vice-Chancellor, in the Chair.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.

THE HON'BLE DR. DEBAPRASAD SARVADHIKARI, M.A., LL.D.

H. STEPHEN, ESQ., M.A.

DR. E. D. ROSS, C.I.E., PH.D.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

J. N. DAS GUPTA, ESQ., B.A.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

BABU JNANCHANDRA GHOSH, M.A.

DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

J. R. BANERJEE, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

LT.-COL. R. H. DEARE, M.B., I.M.S.

2013. The Minutes of the Syndicate, dated the 24th May, 1913, were read and confirmed.

2014. Read the following report on the Presidency College, Calcutta, for 1912-13.

Report on the Presidency College, Calcutta, for 1912-13.

I. Changes in the Governing Body.

Mr. James, Principal of the College, returned to duty after furlough on the 4th March, 1912, from which date Mr. Peake, Offg. Principal, ceased to be acting Vice-President and Secretary but continued to be a member and Mr. Wordsworth ceased to be a member of the Governing Body. Dr. Cullis returned from furlough on the 23rd February, 1912, and was appointed a member in the place of Professor J. N. Das Gupta.

The Governing Body for 1912-13 consists therefore of the following members:—

The Hon'ble Mr. G. W. Kuhler.
Director of Public Instruction, Ex-officio Member, and President.
The Hon'ble Dr. Debaprasad Sarbadhikari,
Representative of the University on the Bengal Council, and Ex-officio, Member.

will, we think, be generally admitted that whatever the circumstances, provision should be made to ensure the steady prosecution and publication of original investigation by the department.

We should state that neither the Principal nor Professor Peake think it necessary to increase the number of Professors but that, after carefully considering their views, our opinion remains unchanged.

Chemistry Department.

This is the only Science department which has not now been provided with new quarters and, in comparison with the others, it appears very badly housed. In last year's report it was mentioned that it was proposed that most of the rooms in that wing of the College running along College Street should be given to Chemistry. It was also remarked that it was very undesirable that the Chemistry lecture-rooms should remain in this wing as the traffic greatly interfered with lecturing and that it would be desirable to have Chemistry lecture-rooms built in the quardangle which is now occupied by the old Hare School and the sheds used as temporary Chemistry and Physics laboratories. We understand that two schemes have now been submitted for improving the housing and equipment of the Chemistry department, the more modest one being a scheme to expand the laboratories along the College Street wing and into the old Hare School building at a cost of Rs. 34,000; the more ambitious proposal being not only to expand the laboratories along College Street but also to demolish the old Hare School building and the tin sheds and erect Chemistry lecture-rooms in the quadrangle. The cost of this more ambitious proposal would probably be not much less than 1 lakh. It is the scheme which we advocated in the last year's report and we cannot too strongly recommend that it should be adopted in preference to the more modest proposal which has the very radical defect of leaving lecture-rooms on the street.

In last year's report we also drew attention to the dirtiness of the present laboratories and remarked that the Public Works Department seemed very lax in the matter of annual repairs such as white-washing, repairing water and gas-cocks, re-varnishing benches, &c. We would again draw attention to this matter and again suggest that the College authorities should try to stir them up and get the laboratories white-washed and the furniture and fittings cleaned up. The extension of the Chemical laboratories and the building of new lecture-rooms may not be possible at once owing to lack of funds, but this white-washing and cleaning up is a small matter and would cost practically nothing, but it would have a very beneficial effect in every way.

We also examined again in detail the arrangements for the supervision of the practical classes and again found that the requirements of the University Regulations were not entirely met. This apparently is not due to insufficiency of staff but rather to the great difficulty of arranging a time-table when such a large choice of combinations of subjects is allowed to the students. It is, however, very desirable that the University Regulations

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Since the submission of the Report to the Registrar we have received the following "Report on Physico Physiological Research carried out at the Presidency College under Dr. J. C. Bose for the year 1912-13:—

Important researches have been carried out during the past year by Professor J. C. Bose assisted by the research scholars Babu Gurupresanna Das, L.M.S., and Babu Suresdrachandra Das, M.A. An account of Professor Bose's discovery of "Transmission of Excitation in Mimosa" was read before the Royal Society on March 6th, 1913, and subsequently published by the Society, Messrs Longman, Green & Co. are publishing a volume giving an account of "Researches on Irritability of Plants."

The University of Calcutta & Acharya P.C.Ray 1906-1944

should be satisfied as it will be extremely difficult to exact compliance from smaller private colleges if the premier Government College under the University is not meeting the requirements in every respect.

A considerable amount of research work has been accomplished and published from the department during the year, on which Dr. P. C. Ray is to be warmly congratulated. The following list of papers taken from the Journal of the Chemical Society for 1911 and 1912 will give some idea of the activity of the department in this direction. It is not a complete list of the work done or published as some has been published in other Journals:—

Ray, P. C. Influence of minute quantities of ferric salts and of manganese nitrite on the rate of solution of mercury in nitric acid, J.C.S. Trans. 99, 1012.

Ray, P. C. and R. L. Datta. Nitrites of the benzylammonium series Benzylammonium nitrite and dibenzylammonium nitrite and their sublimation and decomposition by heat. J.C.S. Trans. 99, 1475.

Ray, P. C. and J. N. Rakhit. Methylammonium nitrite. J.C.S. Trans. 99, 1016.

Ray, P. C. and J. N. Rakhit. Nitrites of the alkylammonium bases: ethylammonium nitrite, dimethylammonium nitrite, and trimethylammonium nitrite. J.C.S. Trans. 99, 1470.

Ray, P. C. and J. N. Rakhit. Trimercuridiethylammonium nitrite. J.C.S., Trans. 99, 1970.

Ray, P. C. and J. N. Rakhit. Nitrites of the alkylammonium series, Part III. Triethylammonium nitrite and its decomposition and sublimation by heat. J.C.S. Trans. 101, 216.

Ray, P. C. and J. N. Rakhit. Nitrites of the alkylammonium series. Part II. Propylammonium nitrite and butylammonium nitrite and their decomposition by heat. J.C.S. Trans. 101, 141.

Ray, P. C. and H. K. Sen. Tetramethylammonium hyponitrite and its decomposition by heat. J.C.S. Trans. 99, 1466.

Ray, P. C. and H. K. Sen. The decomposition of tetramethylammonium nitrite by heat. J.C.S. Proc. 1911, 4.

Datta, R. L. The formation of dichlorocarbamide and its behaviour towards amines. J.C.S. Trans. 101, 166.

Ray, P. C. and J. N. Rakhit. Nitrites of the alkylammonium series, Part IV, isoButyl,—diethyl,...dipropyl,—and tripropyl ammonium nitrites. J.C.S. Trans. 101, 62.

Ray, P. C., J. N. Rakhit and R. L. Datta. Nitrites of the mercurialkyl and mercurialkylary lammonium series. J.C.S. Trans. 108, 616.

Ray, P. C. and N. Dhar. The molecular conductivities of potassium nitrite, mercuric nitrite and potassium mercurinitrite. J.C.S. Trans. 101, 965.

Ray, P. C., N. Dhar and T. De. The Vapour density of ammonium nitrite. J.C.S. Trans. 101, 185.

Ray, P. C., N. Dhar and T. De. Nitrites of the mercurialkyl and mercurialkylarylammonium series. Part II. J.C.S. Trans. 101, 1552.

Physiological Department.

Since the last report was submitted to the University, the Physiological Department has moved into the new Laboratories on the 2nd floor of the new buildings. The Department consists of separate rooms for the Histological, Chemical, and Mechanical portions of the practical laboratory work and a room for the M.Sc. Class and for research students and is also provided with a lecture theatre, and a dark room for photographic work. These have all been admirably fitted up, under the supervision of Professor Mahalanabis; the revolving drums, for taking tracings, in the Mechanical room, are driven by electricity and the device, introduced by Mr. Mahalanabis, by which the vibration is reduced to a minimum is a distinct advantage.

University of Calcutta.

MINUTES

FOR THE YEAR

1913

PART V

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 26.

THE 5TH JULY, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SANTRABACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., VICE-CHANCELLOR, IN THE CHAIR.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, M.A., LL.D.

H. STEPHEN, ESQ., M.A.

R. HEATON, ESQ.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

J. K. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D., F.A.S.B.

BABU JNANCHANDRA GHOSH, M.A.

BABU RHANINDRALAL GANGULI, M.A., B.L.

DR. D. N. MALLIK, B.A., Sc. D., F.R.S.E.

J. R. BANERJEA, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

2413. The Minutes of the Syndicate, dated the 28th June, 1913, were read and confirmed.

2414. Read an application from Sureschandra Mukerjee, who passed the B.L. Examination in 1912 and who intends to join the Burma Bar, requesting permission to sit for the Buddhist Law and the Land Tenure papers only at the Preliminary and Final Examinations in Law.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to sit for the Preliminary Law Examination in Buddhist Law only as a non-collegiate student.

ORDERED—

That a copy of the above resolution be forwarded to the applicant with the intimation that he cannot be admitted to a fresh examination in Land Tenures.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the writer of the letter be asked to refer the matter to the Divisional Inspector of Schools and not to the University.

2551. Read a letter from Mr. M. N. Ghose, M.C.E., M.R.N.S., forwarding twelve copies of his work entitled "Japan-Prabash" and requesting that the book may be recommended for adoption as a text-book] for the examinations of this University or for Libraries in High Schools.

ORDERED—

That the book be referred to the Board of Studies in Sanskritic Languages for opinion.

2552. Read a letter from Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., requesting that the Hon'ble the Vice-Chancellor and Syndicate may be pleased to reconsider their decision rejecting certain theses (under the joint authorship of Dr. P. C. Ray and Nilratan Dhar) submitted by the latter for his admission to the current M.Sc. Examination in Chemistry.

ORDERED—

That it be explained to Dr. Ray that under the Regulations of the University theses embodying the results of research conducted jointly or with help or co-operation of others cannot be accepted by the Syndicate in support of a candidate's claim for exemption from part of the M.A. or M.Sc. Examination in a Scientific subject.

2553. Read an application from Muhammad Ikramal Haque, who has been serving as a teacher in the Chittagong H. E. School and who intends to appear at the I.A. Examination as a non-collegiate student with Physiology as one of his subjects, requesting to be informed whether he may be admitted to the Examination on production of a certificate of having taken a practical course in the subject, from an experienced L.M.S. as required under Section 4, Chapter XVI of the University Regulations.

ORDERED—

That the application be refused.

2554. Read an application from Adityachandra Ray, an unsuccessful candidate at the last I.A. Examination, who appeared at the examination from the Rajshahi College with Chemistry as one of his subjects, praying that, as it will be convenient for him to prosecute his studies during the current

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 30.

THE 2ND AUGUST, 1913.

Present:

THE HON'BLE JUSTICE SIR ASHUTOSH MOOKERJEE, SARASWATI, SASTRACHARYAPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.,
Vice-Chancellor, in the Chair.

THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
H. STEPHEN, ESQ., M.A.
R. HEATON, ESQ.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. G. THIBAUT, C.I.E., PH.D., D.Sc.
BABU JNANENDRA GHOSH, M.A.
DR. S. C. BAGCHI, B.A., LL.B., LL.D.
BABU PRAMATHALAL GANGULI, M.A., B.L., F.R.A.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

3092. The Minutes of the Syndicate, dated the 26th July, 1913, were read and confirmed.

3093. Read the following Proceedings of the Governing Body of the University Law College, dated the 28th July, 1913 :—

"The Offg. Registrar reported that the number of students now reading in the First-year Class was 845, the number in the Second year Class, 356, and the number in the Third-year Class, 330.

The Offg. Registrar reported that on account of the admission of the new students into the College, the President of the Governing Body had found it necessary to make the following arrangements and new appointments :—

1. Babu Haraprasad Nag, M.A., B.L., to act as tutor in charge of students in the Reading Room for three hours a day on his previously sanctioned salary of Rs. 250 a month.

2. Babu Birajmohan Majumdar, M.A., B.L., to lecture one period a day to non-tutorial class on his previously sanctioned salary of Rs. 200 a month.

3. Babu Tarakchandra Chakrabarti, B.L., to be Professor in charge of tutorial classes for two periods a day, on Rs. 200 a month.

4. Mr. W. Chippendale, B.L., to be Professor in charge of tutorial classes for two periods a day on Rs. 200 a month.

229

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

To be recorded.

3159. Read a letter from the Offg. Principal, Hughli College, reporting that Babu Haridas Mukerjee, M.Sc., joined his post as Demonstrator in Chemistry in the aforesaid College on the 26th July, 1913.

ORDERED—

To be recorded.

3160. Read a letter from the Head Master, Kishorgunj H. E. School, suggesting that students in the Matriculation and Second Classes should not be allowed to change their optional subjects.

ORDERED—

That the Head Master, Kishorgunj H. E. School, be informed that the matter is entirely at his discretion and he may refuse to allow such changes in the optional subjects if he chooses.

3161. Read a letter from the President, W. B. Union Institution, Waxirpur, stating that the instructions for improving the School conveyed in this Office letter No. 7146, dated the 24th June, 1913, have been followed although the Head Master, Babu Nishikanta Sengupta, submitted his resignation of his own accord on the 15th March, 1913.

ORDERED—

To be recorded.

3162. Read an endorsement from Dr. P. C. Ray, forwarding an application from Satyaranjan Dasgupta, a student in the Fifth-year Chemistry Class of the Presidency College, Calcutta, who passed the B.Sc. Examination in 1912 with Second Class Honours in Chemistry, praying that he may be permitted to offer a piece of research work in lieu of a portion of the next M.Sc. Examination in Chemistry.

ORDERED—

That Dr. P. C. Ray be informed that the application should be submitted through the Principal, Presidency College, and should be supported by his recommendation.

3163. Read an application from Sachikanta Ray, who passed the B.A. Examination in 1910, requesting permission to sit for the M.A. Examination in 1914 as a non-collegiate student with History as his subject.

University of Calcutta.

MINUTES

FOR THE YEAR

1913

PART VI

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 36.

THE 20TH SEPTEMBER, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRABACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

BABU HERAMBACHANDRA MAITRA, M.A.
RAI UPENDRANATH BRAHMACHARI BAHADUR, M.A., M.D., PH.D.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. G THIBAUT, C.I.E., PH.D., D.Sc.
BABU JNANCHANDRA GHOSH, M.A.
SIR RAJENDRANATH MOOKERJEE, K.C.I.E.
BABU PRANENDRALAL GANGULI, M.A., B.L.
J. R. RANKEN, ESQ., M.A., B.L.
BABU HIRALMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. R. H. DEANE, M.B., I.M.S.

4007. The Minutes of the Syndicate, dated the 6th September, 1913, were read and confirmed.

4008. Dr. D. N. Mallik was nominated by the Hon'ble the Vice-Chancellor to act on the Syndicate in place of Mr. J.N. Das Gupta during his temporary absence.

4009. Read a memo. from the Inspector of Schools, Presidency Division, forwarding a copy of a report on the Kamarhatty Sagar Dutt Free High School, in which it is suggested that greater strictness should be observed in granting promotions in the first three classes and that desks should be supplied for pupils in the 5th, 6th and 7th Classes.

ORDERED—

That a copy of the report be forwarded to the authorities of the Sagar Dutt Free High School and that they be asked to give effect to the suggestions made by the inspecting officer.

The University of Calcutta & Acharya P.C.Ray 1906-1944

4019. Read an application from Achintyakrishna Mukherjee, who passed the B.A. Examination in 1911, requesting permission to sit for the ensuing M.A. Examination in History as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in History as a non-collegiate student.

4020. Read an application from Kaminikumar Banerjee, who passed the B.A. Examination in 1910 and the B.L. Examination in January, 1913, requesting permission to appear at the next M.A. Examination in Philosophy as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in Philosophy as a non-collegiate student.

4021. Read an application from Chandrakanta Guhathakurtha, who passed the B.A. Examination in 1908, requesting permission to appear at the ensuing M.A. Examination in History as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in History as a non-collegiate student.

4022. Read an endorsement from the Principal, Presidency College, forwarding an application, supported by Dr. P. C. Ray, from Satyaranjan Dasgupta, who passed the B.Sc. Examination in 1912 with Honours in Chemistry, requesting permission to offer a piece of research work in Organic Chemistry in lieu of a portion of the next M.Sc. Examination in Chemistry.

ORDERED—

That the permission asked for be granted.

4023. Read an endorsement from the Principal, Brajamohan College, Barisal, forwarding an application from Babu Chandranath Majumdar, Medical Practitioner, praying that his son, Anantachandra Majumdar, an unsuccessful candidate at the last B.A. Examination, who has been obliged to give up Chemistry and to take up a new subject, namely, Sanskrit, in its place owing to want of accommodation in the Chemistry Class in the

University of Calcutta.

MINUTES

FOR THE YEAR

1913

PART VII

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 44.

THE 6TH DECEMBER, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.R.S.B.,
Vice-Chancellor, in the Chair.

THE HON'BLE MR. W. W. HORNELL, M.A.
THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
BABU HEMAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, M.A., LL.D.
B. HEATON, ESQ.,
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D., F.A.S.B.
G. THIBAUT, ESQ., C.I.E., PH.D., D.Sc.
BABU JNANCHANDRA GHOSH, M.A.
BABU PHANINDRALAL GANGULI, M.A., B.L.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIHARIMOHAN MAJUMDAR, M.A., B.L.

5144. The Minutes of the Syndicate, dated the 29th November, 1913, were read and confirmed.

5145. Read two letters from the Joint-Secretary to the Government of India, Department of Education, stating that His Excellency the Chancellor of the Calcutta University is pleased to direct that necessary steps be taken by the Syndicate for the election of Fellows by the Faculties of Arts and Science and by the Registered Graduates, respectively, in accordance with the provisions of Chapters XII and XIII of the University Regulations, and that the procedure for the elections shall be as follows:—

(a) The Faculty of Arts to elect two Fellows, of whom one shall be a person following the profession of education.

(b) The Faculty of Science to elect a Fellow.

(c) The Registered Graduates to elect two Fellows from among themselves.

PRACTICAL.

(Pass and Honours.)

Dr. P. C. Ray, C. I. E., D. Sc., Ph. D., F. C. S.,—*Chairman of the Board.*

PRESIDENCY COLLEGE CENTRE.

Dr. P. C. Ray, C. I. E., D. Sc., Ph. D., F. C. S.
Prof. B. N. Sen, M. A., M. Sc.

SCOTTISH CHURCHES COLLEGE CENTRE.

Babu Bidhubhushan Datta, M. A.
„ Chandrabhushan Bhaduri, B. A., F. C. S.

ST. XAVIER'S COLLEGE CENTRE.

Babu Kamadacharan Chakrabarti, M. A.
Dr. P. C. Mitter, M. A., Ph. D.
Rev. Father J. Dühr, S. J.

DACCA COLLEGE CENTRE.

B. N. Das, Esq., M. A., B. Sc.

GAUHATI COLLEGE CENTRE.

D. Thomson, Esq., M. A., B. Sc., Ph. D.

RANGOON COLLEGE CENTRE.

A. E. Bellars, Esq., M. A.

PHYSIOLOGY.

The Hon'ble Dr. Nilratan Sarkar, M. A., M. D.—(*Paper-Setter.*)
Major D. McCay, M. B., I. M. S.—(*Paper-Setter and Examiner.*)
Rai Upendranath Brahmachari, Bahadur, M. A., M. D., Ph. D.—(*Paper-Setter and Examiner.*)
S. C. Mahalanabis, Esq., B. Sc., F. R. S. E.—(*Examiner.*)

BOTANY.

Paper-Setters.

Pass and Honours.

Dr. P. J. Brühl, D. Sc., F. C. S., F. G. S.
S. C. Mahalanabis, Esq., B. Sc., F. R. S. E.
E. J. Butler, Esq., M. B., F. L. S.

Examiners.

C. C. Calder, Esq.
Dr. Nagendramohan Gupta, Ph. D.
„ Girindranath Mukerjee, B. A., M. D.

GEOLOGY AND MINERALOGY.

Dr. P. J. Brühl, D. Sc., F. C. S., F. G. S.—(*Paper-Setter.*)
„ H. H. Hayden, D. Sc., C. I. E., B. A., B. E., F. G. S., F. A. S. B.—(*Paper-Setter and Examiner.*)
L. L. Fermor, Esq.—(*Paper-Setter and Examiner*).
P. N. Dutt, Esq., B. Sc., F. G. S. (*Paper-Setter and Examiner.*)

Class IV of the School, p. 1139. Late admission of Lalitmohan Chatterjee, Srikantha Satpathi, Praphullakumar Rudra, Anathsaran Guha, Phanibhushan Majumdar, Asutosh Ray and Suryyakumar Ray, sanctioned, pp. 1139-41. Noab Ali Meah's late admission, sanctioned, p. 1259. Nripendranath Sen allowed to join Class V of Malda Zila School, p. 1340. Binaykrishna Chatterjee not allowed to join the Matriculation Class of the Hughli Collegiate School, pp. 1426-27. Late admission of Muhamed Mazharul Haque sanctioned and Chandicharan Mukerjee not allowed to join the First Class of Hughli Collegiate School, p. 1429. Syed Muhamed Izhrul Huq's admission into the First Class of Calcutta Madrassa in June, 1913, not sanctioned, p. 1430. Hrishikes Sil not allowed to join the First Class of Hughli Collegiate School, p. 1434. Subodhchandra Rakshit, a student of the Allahabad University, permitted to join the First Class of a school recognised by this University, p. 1506. Break in the period of studies of certain students of Central Collegiate School, condoned, p. 1506. Break in the period of study of Nasiruddin Ahmed, condoned, and Rohatcharan Poddar, and Ramaprasad Ray asked to submit their applications through their Head Masters, p. 1507. Head Master, Dinajpur Zila School, allowed to admit one student in excess in Class VI of the School, p. 1567. Break in the period of study of Krishnadhan Chakraharti, condoned, p. 1567; of Jogalkisor Mitter and Ramaprasad Ray, condoned, pp. 1567-68. Excess admission of Jogeswarnath Ray into the First Class of Nawab Bahadur's Institution, Murshidabad, granted, p. 1567. Excess admission of Babu Madhusudan Sengupta's son into the Third Class of Rajshahi Collegiate School, granted, p. 1568. Makhanlal Sengupta permitted to join Rowlie High School, p. 1597. Aadhbihari Lal's break in the period of study, condoned, p. 1599. Indupraksa Mutsuddi allowed to be taken into Class III of the Chittagong Collegiate School, p. 1600. No excess boys allowed to be kept in the Sixth Class of Baburia J. S. H. E. School, p. 1613. Hemendranath Gupta allowed to be taken into the Municipal School, Burdwan, as an additional student of the Class for which he is fit, pp. 1613-14. Late admission of Abdul Mahmud, Lalitmohan Ghosh, Muhamed Abdul Majid and Satindrakumar Chaudhuri into the First Class of their respective schools, sanctioned, pp. 1614-15. Excess admission of 2 boys into Class III of Mymensingh Zila School, sanctioned, p. 1615. Excess students allowed to be taken into the Third and Fifth Classes of the P. C. School, Ranaghat, p. 1618. Excess admission sanctioned in certain Classes of Rampurhat H. E. School, Dinajpur Zila School and Brahmanbaria H. E. Schools, pp. 1628-29. Late admission of Hemendranath Chatterjee, sanctioned, pp. 1628-29. Break in the period of study of a boy of the Matriculation Class from March to July, 1913, condoned, p. 1630. Excess admission of Alim Mohammed into the Matriculation Class of Nawab Bahadur's Institution, granted, p. 1661. Late admission and break in the periods of study of Biswanath Prasad, Sadhirkumar Ghosh, Dhirendranath Mukerjee, Muhamed Rati, Abulfutah Md. Nuruddin Shah, Ganga Bishn Prasad, Fazl-ul-Bari and Phanindrakumar Ruychaudhuri, sanctioned, pp. 1685-88. Bimalchandra Chatterjee permitted to join the Sixth Class of Kushtia H. E. School as an excess student, p. 1687. Late admission of Rohatcharan Poddar, sanctioned, p. 1700. Late admission of Asutosh Ghosh and Praphullakumar Ghosh, excused, pp. 1700-01. Lalitmohan Pal's late admission, sanctioned, p. 1703. Late admission of Rameschandra Mitra, sanctioned, p. 1707. Mohsen Uddin directed to submit a formal application, p. 1710. Provisional admission of Sarju Prasad into the Matriculation Class of the B. N. Collegiate School, sanctioned, p. 1781. No excess admission allowed in some of the Classes of Uluberia H. E. School, p. 1786. Late admission of certain students into the Matriculation Classes of their respective Schools, sanctioned, pp. 1797-98. Late admission of Jatindramohan Mukerjee and Amritakumar Banerjee in the Matriculation Class of their respective schools, sanctioned, p. 1807. Late admission of Praphullakumar Basu,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 45.

THE 13TH DECEMBER, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, M.A., LL.D.
H. HEATON, ESQ.
RAI BAHADUR, UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
DR. E. D. ROSS, C.I.E., PH.D., F.A.S.B.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. G. THIBAUT, C.I.E., PH.D., D.Sc., F.A.S.B.
BABU JNANCHANDRA GHOSH, M.A.
BABU PHANINDRALAL GANGULI, M.A., B.L., F.R.A.S.
J. B. BANERJEA, ESQ., M.A., B.L.
BABU HIRAJMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. B. H. DRAKE, M.B., I.M.S.

5245. The Minutes of the Syndicate, dated the 6th December, 1913, were read and confirmed.

5246. Read the Proceedings of the Board of Studies in English, dated the 12th November, 1913.

ORDERED—

To be recorded.

5247. Read the Proceedings of the Board of Studies in Greek, Latin, French, German and Armenian, dated the 14th November, 1913, (in circulation).

ORDERED—

To be recorded.

5248. Read the Proceedings of the Board of Studies in Sanskrit, dated the 22nd November, 1913.

Honours.

Dr. W. A. K. Christie, Ph.D.
„ K. S. Caldwell, Ph.D.
„ D. Thompson, M.A., B.Sc., Ph.D.
Mr. E. R. Watson, M.A., B.Sc.

(Practical).

(Pass and Honours)

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., Chairman of the Board (At each Centre for Practical Examination both the Pass and Honours candidates will be examined, and in Calcutta, no candidate will be examined in the College in which he has worked).

Presidency College Centre.

Babu Chandrabhushan Bhaduri, B.A.
Mr. R. N. Sen, M.A., M.Sc.

Scottish Churches College Centre.

Rev. Dr. J. Watt, M.A., D.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.

St Xavier's College Centre.

Rev. Father J. Dühr, S.J.
Babu Bidhubhushan Datta, M.A.

Dacca College Centre (Pass only).

Mr. B. N. Das, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.

Gauhati College Centre (Pass only).

Dr. D. Thompson, M.A., B.Sc., Ph.D.
„ P. C. Mitter, M.A., Ph.D.

Rangoon College Centre (Pass only).

Mr. A. E. Bellars, M.A.
„ M. J. Hunter, M.A.

PHYSIOLOGY.

Major D. McCay, M.B., I.M.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

BOTANY.

Mr. C. C. Calder.
„ S. C. Mahalanabis, B.Sc., F.R.S.E.
Dr. Girindranath Mookerjee, B.A., M.D.

GEOLOGY & MINERALOGY

Mr. H. H. Hayden, C.I.E., B.A., B.E., F.G.S.
„ G. H. Tipper, M.A., F.G.S.
„ J. Coggin Brown, B.Sc., F.G.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 46.

THE 20TH DECEMBER, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.

BABU BRAMMACHANDRA MAITRA, M.A.

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, M.A., LL.D.

H. HEATON, Esq.,

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

J. N. DAS GUPTA, Esq., B.A.

S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

G. THIBAUT, Esq., C.I.E., PH.D., D.Sc.

BABU JNANCHANDRA GHOSH, M.A.

BABU PHANINDRALAL GANGULI, M.A., B.L.

BABU HIRALMOHAN MAJUMDAR, M.A., B.L.

LT.-COL. B. H. DEARE, M.B., I.M.S.

5392. The Minutes of the Syndicate, dated the 13th December, 1913, were read and confirmed.

5393. Read the Minutes of the Faculty of Science, dated the 13th December, 1913.

ORDERED—

To be recorded.

5394. Read the Minutes of the Faculty of Engineering, dated the 13th December, 1913.

ORDERED—

To be recorded.

ORDERED—

To be recorded.

ORDERED ALSO—

That the sum for the present be placed in the Bank of Bengal in current deposit and that the interest as it accrues be invested in 4% Municipal or Port Trust Debentures.

5454. Read a letter from Captain Charles Hordern, R. E., reporting the death of his father, Mr. Peter Hordern, who was a Fellow of the Calcutta University and Director of Public Instruction in Burma, on the 17th November, 1913.

ORDERED—

That a letter of condolence be sent to Captain Hordern.

5455. Read a letter from the Secretary to the Provincial Advisory Committee for Indian Students, Bengal, requesting that he may be supplied with a list of students rusticated or expelled during the last two years by the Calcutta University and that in future notifications regarding the students when they are rusticated by the University may be sent to his office for information.

ORDERED—

That the request be complied with and that henceforth copy of a notice announcing the rustication of a student for misconduct be forwarded to the Secretary, Provincial Advisory Committee for Indian Students, Bengal, East Bengal and Bihar.

5456. Read a letter from Dr. P. C. Ray, forwarding his report on the work done by Babu Anukulchandra Sarkar as a Premchand Roychand Research Student during the year ending on the 31st October, 1913.

RESOLVED—

That the report be adopted and that the balance of the studentship due be paid to Babu Anukulchandra Sarkar.

5457. Read an application from Sasankasekhar Banerjee, who passed the B.A. Examination in 1911, praying that he may be allowed to sit for the next M.A. Examination in Philosophy as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in Philosophy as a non-collegiate student.

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FACULTY OF SCIENCE.

The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.

367

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Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D
P. B. Mukharji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Major L. Rogers, C.I.E., M.D., D.P.H., F.R.C.S., I.M.S.
C. W. Peake, Esq., M.A
Babu Jnanchandra Ghosh, M.A.
E. P. Harrison, Esq., Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. Girindranath Mukerjee, B.A., M.D.
H. H. Hayden, Esq., C.I.E., B.A., B.E., F.G.S., D.Sc.
E. R. Watson, Esq., M.A., B.Sc.
S. W. Kemp, Esq., B.A.
D. Hooper, Esq., F.L.S.
Dr. J. Watt, M.A., D.D.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1913.

No. 47.

THE 26TH DECEMBER, 1913.

Present:

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACH ASIATI Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.,

Vice Chancellor, in the Chair.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.

BABU HERAMBACHANDRA MAITRA, M.A.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

J. N. DAS GUPTA, ESQ., B.A.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

BABU JNANCHANDRA GHOSH, M.A.

BABU PHANINDRALAL GANGULI, M.A., B.L.

J. R. BANERJEA, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

LT.-COL. B. H. DEARE, M.B., I.M.S.

5499. Read the Minutes of the Faculty of Medicine, dated the 17th December, 1913.

Read also the following letter from the Hon'ble Dr. Nilratan Sarkar and Dr. Girindranath Mukerjee having reference to certain provisions of the Bengal Medical Bill, 1913.

"To

THE REGISTRAR, CALCUTTA UNIVERSITY.

SIR,

We beg to submit the following note on the Bengal Medical Bill, that was discussed by the Faculty of Medicine, on Wednesday last.

1. In our opinion, the Council should consist of 15 Members instead of 9. We may point out that in Bombay the number is 13, and in Madras the number proposed is 15.

2. We think that the memberships should be distributed as follows:

Two members to be elected by the registered practitioners who are Graduates or Licentiates in Medicine of this University.

Principal Herambachandra Maitra, M.A. Rev. Father T. Vander-Scheuren, S. J	Hughli College. Krishnagar College. Wesleyan College, Bankura. Krishnachandra College, Hetampur. Krishnath College, Berhampur. Midnapur College. Burdwan Raj College. Victoria College, Narail. Daulatpur Hindu Academy. Uttarpara College.
W. Owston Smith, Esq., B.A., S.S.C. Dr. P. C. Mitra, M.A., Ph.D.	Patna College. B. N. College, Bankipur. B. B. College, Muzafferpur. T. N. Jubilee College, Bhagalpur. D. J. College, Monghyr. St. Colomba's College. Hazaribagh. Ravenshaw College, Cuttack.
Professor J. N. Das Gupta, B.A. (Oxon.) Dr. P. C. Mitra, M.A., Ph.D.	Dacca College. Jagannath College. Rajshahi College. B. M. College, Barisal. Chittagong College. Victoria College, Comilla. Victoria College, Cooch-Behar. Anandamohan College, Mymensingh. Murarichand College, Sylhet. Cotton College, Gauhati. Edward College, Pabna.
Professor J. N. Das Gupta, B.A. (Oxon.) Rev. Dr. J. Watt, M.A., D.D.	Rangoon College, Burma. Baptist College, Rangoon.
The Hon'ble Mr. Mahendranath Ray, M.A., B.L.	Ripon Law College.

The Syndicate desire to place on record their sense of obligation to the Directors of Public Instruction within the teritorial limits of the University for lending the services of some of the superior officers of the Department for carrying out the inspection.

University College of Science.

Dr. P. C. Mitra, M.A. (Calcutta), Ph.D. (Berlin), was deputed by the Syndicate last year to make a detailed study of the existing arrangements in the principal Chemical Laboratories in India for the purpose of collecting materials for a report as to the requirements of a suitable Laboratory in connection with the College of Science which the University proposed to establish for Post-graduate research. Dr. Mitra visited the Chemical Laboratories at Pusa, Roorkee, Lucknow, Allahabad, Nagpur, Bombay, Poona, Bangalore and Madras and collected valuable information which he embodied in his report. This report on the equipments of a Modern Chamical Laboratory has been considered by the Syndicate and a Committee consisting of—

The Hon'ble the Vice-Chancellor.
Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.
Dr. P. J. Brühl, D.Sc., F.C.S., F.G.S.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Dr. P. C. Mitra, M.A., Ph. D.

has been appointed to take steps for the construction of a suitable building for Chemical and Physical Laboratories in

connection with the University College of Science. Plans and estimates prepared by the Committee, have been approved by the Syndicate and the construction of the buildings has already been taken in hand.

Annual Inspection of Schools.

The reports on the annual inspection of Recognised Schools which have been receiving the attention of the Syndicate during the year, indicate that the improvements noticed last year in the general condition of these schools are steadily maintained and that most of them are now working efficiently and in accordance with the Rules and Regulations of the University. The Syndicate are glad to be able to report that they have had no occasion to deal with any case of serious breach of discipline among school boys during the year.

Recognition of High Schools.

Two proposals of vital importance to this University are now before the Government of India. One seeks to revoke the power, conferred on this University by the Indian Universities Act of 1904, to recognise High Schools for the purpose of presenting candidates for the Matriculation Examination and to vest the Local Government with the power and the other seeks to introduce the School Final Examination as an equivalent Examination to the Matriculation Examination of the University. The Indian Universities Act of 1904, Clause 25 (2) (c), empowers the Senate of this University to make Regulations regarding the conditions to be complied with by Schools desirous of presenting candidates at the Matriculation Examination. The Government of India in reviewing the situation are inclined to the view that in order to free the University for higher work and more efficient control of Colleges, it is desirable to place the Preliminary Recognition of Schools for purposes of presenting candidates for Matriculation in the hands of the Local Government. The reason adduced in support of this view is that the University has no machinery for carrying out this work and relies entirely on the Department of Public Instruction, which alone has the agency competent to inspect Schools. At the instance of the Government of Bengal, the Syndicate have expressed their opinion on these two important questions which is embodied in their letter No. 1805, dated the 11th September, 1913, printed in extenso in the Minutes of the Syndicate.

Residence of Students.

The problem of residence of students continues to receive its due share of attention from the Syndicate. The Government of India and the Provincial Governments have been lending valuable help to the University in carrying out the provisions regarding the

The University of Calcutta & Acharya P.C Ray 1906-1944

entered in all cases of serious misconduct. An entry once made cannot be altered or cancelled.

20. Boarders are liable to be fined, at the discretion of the Superintendent, for the infringement of rules, disobedience of orders and any other form of misconduct. More serious offences will be punished by the entry of the offender's name in the Conduct-register, and in extreme cases, by removal from the Hostel.

21. A form of report for each student will be filled in and signed by the Superintendent at the end of each year (or at the time of withdrawal from the Hostel). A good report will be a condition of continuance in the College, and of admission to the University Examinations.

VI.—Electric Light.

22. All Electric Lights will be extinguished at 11 P.M., punctually; but there will be light throughout the night in the corridors.

VII.—Sickness.

23. Boarders, when ill will, be attended by the Medical Officer of the Hostel. If a boarder wishes to be attended by any other medical man, he must first obtain the permission of the Superintendent. In such cases, the Hostel Medical Officer has no responsibility for the patient, and, if subsequently called in for consultation, he shall be entitled to the fees usual for such consultations. Any extra expenses involved for diet or nursing must, in these cases, be borne by the patient.

24. Boarders when reported as seriously ill will be removed to the hospital.

25. In case of infectious illness, special precautions are necessary. In all such cases (measles, chicken-pox, cholera) there must be segregation from the rest of the boarders; cases of small-pox or plague must be at once removed from the Hostel.

VIII. Visitors and other Non-Residents.

26. By special permission of the Superintendent, male relatives and friends of the boarders may stay in the Hostel for one or two days as guests, but in no case shall such permission be given for a longer period than two days.

In no case can this privilege be claimed as a right. Boarders must always obtain the consent of the Superintendent beforehand, and permission can only be given when there is room in the Hostel without exceeding the recognised complement of boarders.

27. Traders and hawkers of no description can be allowed inside the hostel.

28. At 9 P.M. all visitors and other persons from outside, except friends and relatives with special permission from the Superintendent under Rule 26, must leave the Hostel.

Government Grants.

During the year Government of India made a non-recurring Grant of Rs. 8,00,000 to the Government of Bengal for the benefit of the Calcutta University to enable it to acquire the site of the fish market south of the Senate House, known as "Madhab Babu's Bazar," for the expansion of the University Buildings. The site is about to be acquired by the Government of Bengal and detailed plans and estimates for the proposed Building are now being prepared by the Syndicate. The Imperial Grant for

Collegiate and University expenditure during 1913 was as follows:—

	Rs.
For University Administrations, inspection and travelling	30,000
For University Law College	20,000
For Improvement of Private Colleges ...	1,29,000

The University also received the following recurring Grant from the Government of India during the year:—

	Rs.
For George V Professorship of Mental and Moral Philosophy	12,000
„ Hardinge Professorship of Higher Mathematics	12,000
Additional Grant to University Law College...	10,000
For two University Readers	4,000
For University Lecturers	15,000
For maintenance of a Laboratory in connection with Sir Tarakuath Palit's benefaction ...	12,000
Total Rs.	65,000

Endowments.

In August last Dr. Rashbehary Ghose, C.S.I., C.I.E., M.A., D.L., Ph.D., offered to make over to the University a sum of Rupees ten lakhs in furtherance of the University College of Science on the following conditions:

First.—That the sum be invested in such approved securities as would produce an income, whenever practicable, of four per cent. per annum.

Second. That four University Professorships or Chairs be established, one for each of the following subjects:

(*a*) Applied Mathematics.
(*b*) Physics.
(*c*) Chemistry.
(*d*) Botany, with special reference to Agriculture.

Third.—That the Chairs mentioned be always filled by Indians (that is, persons born of Indian parents as contradistinguished from persons who are called Statutory Natives of India).

Fourth.—That the salary of each Professor be, as nearly as possible, a sum of six thousand rupees annually, to be paid out of the income of the fund; but that it be open to the Senate to supplement such sum from the University or other funds at their disposal from time to time.

Fifth. That the appointments to the Chairs be made by the Senate upon the nomination of the Board to be constituted as stated hereinafter, and the power of removal of Professors by the Senate, if occasion should ever arise, be exercised only after the matter has been considered by the said Board.

Sixth. That every person elected to one of these Chairs, whether he has been educated in this country or elsewhere, may, in the discretion of the Senate, be required, before he enters upon the execution of the duties of his office, to receive special training, during a period of not less than one year and not more than two years, under specialists in Europe, America, Japan or such

The University of Calcutta & Acharya P.C.Ray 1906-1944

other place outside India, as the Senate may, in each instance, upon the recommendation of the Board, determine; and that during such period the Professor-elect be paid, from the income of the fund, such allowance as the Senate may, upon the recommendation of the Board, determine, so as to enable him to receive a thorough theoretical and practical training in his special subject.

Seventh.—That it be the duty of each Professor—

(a) to carry on original research in his special subject with a view to extend the bounds of knowledge, and to improve, by the application of his researches, the Arts, Industries, Manufactures and Agriculture of this country;

(b) to stimulate and guide research by advanced students, and generally, to assist them in post-graduate work, so as to foster the growth of real learning amongst our young men.

Eighth.—That eight studentships be founded, each of the annual value of nine hundred rupees, to be paid out of the income of the fund; that such studentships be annually awarded by the Syndicate, on the recommendation of the Board, to distinguished graduates who have taken the Degree of Master in the Faculty of Arts or the Faculty of Science; and that two Students be attached to each Professor, to carry on investigation under his guidance and generally to assist him in his work of original research.

Ninth.—That a graduate who has been elected a Student for any year be eligible for re-election, if his work has been satisfactory, and the Senate may, in their discretion, supplement the stipend payable to any Student, from the University or other funds at their disposal: provided, nevertheless, that a graduate elected to one of these studentships shall devote himself exclusively to research in his special subject, and shall not, so long as he holds the studentship, engage in the study of Law or any other branch of professional knowledge.

Tenth.—That, subject to the general principles outlined above, the mode of appointment of Professors, the terms and conditions under which they are to hold office, and the manner in which they are to discharge their duties, as also the conditions on which the studentships shall be awarded, retained, and renewed, be determined by Rules to be framed by the Senate in that behalf, from time to time, upon the recommendation of the Board.

Eleventh.—That the Senate do, on the recommendation of the Board, make adequate provision for Laboratories, Museums, Workshops, Appliances and all other requisites, essential for the due discharge of their duties by the Professor and for original investigation by the Professors and the Students attached to them.

Twelfth. That whatever balance may remain out of the annual income of the fund, after payment of the salaries and allowances of the Professors and the stipends of the Research-Students, as provided above, be, on the recommendation of the Board, applied in the equipment and maintenance of the Laboratories and Museums, in so far as such equipment and maintenance may be necessary for the accomplishment of the work undertaken by the Professors, the Students attached to them, and other advanced pupils, if any.

Thirteenth.—That the Board mentioned above do consist of the following persons, namely:

1. The Vice-Chancellor of the University as Ex-officio President.
2. The Director of Public Instruction, Bengal.
3. The Dean of the Faculty of Science of the University.
4. The Dean of the Faculty of Engineering of the University.

5-8. The Professors of Applied Mathematics, Physics, Chemistry and Botany (appointed as provided above).

9-12. Four members of the University, to be annually elected by the Senate, two of whom at least shall be representatives of Calcutta Colleges under Indian management affiliated in Science to the University.

13-15. Three nominees of the Founder, namely,

(a) The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., D.L., D.Sc., F.R.A.S., F.R.S.E.

(b) Professor Prafullachandra Ray, C.I.E., Ph.D., D.Sc.

(c) The Hon'ble Babu Mahendranath Ray, M.A., B.L.

These nominees of the founder are, and each of them is, authorised to nominate his or their successor or successors; and the power of nominating a successor or successors shall be inherent in every original or derivative nominee of the founder.

The proceedings of the Board so constituted shall be laid before and may be revised by the Syndicate."

The promised donation has since been placed at the disposal of the University, and will be invested according to the terms of the endowment. Sir Tarakuath Palit's princely donation supplemented by this magnificent gift of Dr. Rashbehary Ghose has rendered it easy for the Senate to make a beginning in the great work of establishing a College of Science.

Tripundeswar Mitra Medal Fund.

In August last Babu Ajaynath Mitra and Asoknath Mitra offered to place at the disposal of the University a sum of Rs. 3,000 for the purpose of creating an endowment for the annual award of a gold medal in memory of their father, the late Babu Tripundeswar Mitra. The medal is to be awarded to the student obtaining the highest number of marks in Honours Physics or Chemistry at the B.Sc. Examination. The offer has been thankfully accepted by the Syndicate.

Kesablal Mallik Medal Fund.

The late Babu Matilal Mallik in his last Will and Testament bequeathed to the University G. P. Notes of the value of Rs. 1,500 for creating an endowment in memory of his brother, Kesablal Mallik, for the annual award of a gold medal to the student who obtains the highest number of marks in Pure Mathematics at the M.A. Examination. Rai Brahmamohan Mallik, Bahadur, has made over to the University the Government Securities which have been thankfully accepted by the Syndicate.

Nawab Abdul Latif and Father Lafont Scholarship Fund.

In July last Nawab Bahadur A. F. M. Abdur Rahman, Honorary Secretary, Bengal Social Science Association, placed at the disposal of the University 3½% G.P. Notes of the nominal value of Rs. 3,500 for the purpose of founding a Scholarship for the encouragement of Scientific studies. The offer has been thankfully accepted by the Syndicate who have laid down that the value of the Scholarship shall be Rs. 10 a month, tenable for one year by the successful candidate who stands first among the lady students of the year in any Science subject other than Mathematics at the I.Sc. or the I.A. Examination, and that the

Scholarship be called the "Nawab Abdul Latif and Father Lafont Science Scholarship."

Chandramani Devi—Pranahar Kali Medal Fund.

Babu Chandrasekhar Kali has made over to the University Rs. 2,000 for the purpose of creating an endowment for the annual award of a gold medal to the successful candidate at the Matriculation Examination who obtains the highest number of marks in Bengali Composition, on condition that the medal be called the "Chandramani Devi—Pranahar Kali Medal" in memory of his parents. The offer has been thankfully accepted.

Parbaticharan Ray Medal Fund.

In February, 1913, Mr. S. P. Ray offered to the University 3½% G. P. Notes of the nominal value of Rs. 2,000 for creating an endowment for the annual award of a gold medal to the successful student who stands first at the Intermediate Examination in Law, on condition that the medal will bear the following inscription: "Parbaticharan Ray Medal awarded to————, by Rai Kaliprasanna Ray, Bahadur, in memory of his father" on one side, and the University Arms on the other.

Ramtanu Lahiri Research Fellowship.

In August 1908, Mr. S. K. Lahiri placed at the disposal of the University the copy-right of his publication, known as "Select Poems" and expressed a desire that part of the income from the sale proceeds of the publication might be applied to the award of two annual gold medals to the two best graduates, one male and one female, in Mental and Moral Philosophy, at the B.A. Examination in memory of his father, the late Babu Ramtanu Lahiri and his deceased mother Srimati Gangamani Devi. The offer was thankfully accepted by the Syndicate and since then a considerable balance exceeding Rs. 5,500 has accumulated to the credit of the Fund. The net annual income, after defraying the costs of publication of the book and the medals, also amounts on an average to Rs. 1,800. In these circumstances the Syndicate, at the suggestion of the donor, and with the sanction of the Senate, have, under Section 19, Chapter IV of the University Regulations, established a Research Fellowship in History of Bengali Language and Literature, to be maintained out of the income of the above Fund, supplemented by grant from the fee-fund of the University and have named the Fellowship after the late Babu Ramtanu Lahiri, the father of the donor. They have also appointed Rai Sahib Dineschandra Sen, B.A., as the first Ramtanu Lahiri Research Fellow, for a term of five years on a salary of Rs. 250 a month. The duties of the Fellow have been defined as follows:—

(1) To devote himself to the investigation of the History o Bengali Language and Literature from the earliest times.

(2) To deliver annually a course of twelve public lectures embodying the results of his investigations; the lectures to b published by the University.

(3) To submit to the Syndicate every six months, a report of the progress of work done by him during the preceding six months. The Fellowship to be suspended if, on the report of a competent authority, the work done, be not found to be satisfactory or up to the standard expected.

Travelling Fellowships.

The following draft scheme prepared by the Hon'ble the Vice-Chancellor for instituting Travelling Fellowships is now under the consideration of the Syndicate:—

I. The Syndicate shall annually set apart from the Fee-Fund a sum o Rs. 3,000 for the maintenance of a Travelling Fellowship.

II. A Travelling Fellowship, of the value of Rs. 3,000, tenable for on year, shall be awarded in 1914 and the four following years. The Travelling Fellowship, will be allocated successively to the Faculties of Arts, Science Law, Medicine and Engineering. If in any year, there is no suitable candidat for the Travelling Fellowship in the particular Faculty concerned, it may b placed at the disposal of one of the other Faculties.

III. The Fellowships shall be open to

(a) all persons who have been at any time admitted to a Degree in th University of Calcutta;

(b) all persons who have been at any time a Fellow of the University Honorary or Ordinary, or an Added Member of a Faculty;

(c) all persons who have at any time held the office of a Professor Assistant Professor, Reader or Lecturer in the University.

IV. The Travelling Fellows shall be elected by the Senate on th recommendation of the Syndicate, who are empowered to invite application and frame rules in this behalf.

V. Each candidate for a Travelling Fellowship shall satisfy the Syndicat as to his general ability to profit by a course of study abroad. He shall als submit a general scheme of the work he proposes to undertake during th tenure of his Fellowship.

VI. The Travelling Fellows shall investigate educational methods abroa in their special branches of study (such branch to be determined by th Syndicate in consultation with them)—preferably in Great Britain and in th Continental European seats of learning. They shall submit periodical account of their work to the Syndicate and supply such other evidence of the progres made by them as the Syndicate may from time to time require.

VII. Each Travelling Fellow on his return to India shall submit to th Syndicate a full Report embodying the results of his studies and travels whic shall be published and be the property of the University.

VIII. The emoluments attached to the Fellowship shall be paid in tw half-yearly instalments. The Syndicate shall have power to withhold th payment of the second instalment, if the work done by a Travelling Fellow during the first half year of the tenure of his Fellowship be deemed unsatisfactory by them.

IX. This scheme shall be in force for a term of five years from 1914.

Governing Body of the University College of Science.

For 1913-14 the Governing Body of the University College of Science founded on the endowment of Sir Taraknath Palit, Kt., D.L., is constituted as follows :—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., Saraswati, Sastravachaspati, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., Vice-Chancellor, *Ex-officio*, *President*.

The Hon'ble Mr. W. W. Hornell, M.A., Director of Public Instruction, Bengal.

Dr. H. H. Hayden, C.I.E., D.Sc., B.A., B.E., F.G.S., Dean of the Faculty of Science.

The Hon'ble Mr. B. K. Finnimore, Dean of the Faculty of Engineering.

Elected by the Senate:
- Babu Ramendrasundar Trivedi, M.A., Principal, Ripon College, Calcutta.
- Babu Hcrambachandra Maitra, M.A., Principal, City College, Calcutta.
- Dr. P. Brühl, D.Sc., F.C.S., F.G.S.
- Dr. J. Watt, M.A., D.D.

Donor's nominees:
- Mr. Lokendranath Palit, I.C.S. (Retired).
- Mr. S. P. Sinha, Bar-at-Law.
- The Hon'ble Mr. Justice B. K. Mallik, I.C.S.
- The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.

The Board of Management for Dr. Ghose's Endowment for the year 1913-14 have been constituted as follows :—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., Saraswati, Sastravachaspati, Vice-Chancellor—*Ex-officio*, *President*.

The Hon'ble Mr. W. W. Hornell, M.A., Director of Public Instruction, Bengal.

Dr. H. H. Hayden, C.I.E., D.Sc., B.A., B.E., F.G.S., Dean of the Faculty of Science.

The Hon'ble Mr. B. K. Finnimore, Dean of the Faculty of Engineering.

Professor of Applied Mathematics.
Professor of Physics.
Professor of Chemistry.
Professor of Botany.

Elected by the Senate:
- Babu Ramendra sundar Trivedi, M.A., Principal, Ripon College.
- Mr. J. R. Banerjea, M.A., B.L., Vice-Principal, Metropolitan Institution.
- Dr. P. Brühl, D.Sc., F.C.S., F.G.S.
- Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

Founder's nominees:
- The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., Saraswati, Sastrabachaspati, M.A., D.L., D.Sc., F.R.A.S., F.R.S.E.
- Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
- The Hon'ble Babu Mahendranath Ray, M.A., B.L.

Special Convocation to present a congratulatory Address to the Chancellor and to confer Honorary Degrees.

The year under review closed with an impressive academic function in which the Senate and the Honorary and Ex-officio Fellows of the University participated. A special convocation was held on the 26th of December in the Throne Room at Government House for

presenting a congratulatory address to His Excellency the Chancellor and also to confer Honorary Degrees on a batch of seven most distinguished men who by their scholarship and culture had attained high eminence in the Literary or Scientific world. The address, which was engrossed on vellum and beautifully illuminatedby the Principal of the Government School of Art, was read and presented to His Excellency by the Hon'ble the Vice-Chancellor in an artistically chased casket specially designed for the occasion. After an eloquent and felicitous speech by the Vice-Chancellor in which he expatiated on the splendid achievements of the recipients of the Honorary Degrees, whose names have already been mentioned in this Report, His Excellency the Chancellor delivered to each recipient the Diploma of the Honorary Degree conferred on him. His Excellency then addressed the assembly thanking the Fellows for their courtesy and cordial welcome, congratulating the recipients of the Honorary Degrees and briefly touching upon the several points urged in the Address. He then declared the Convocation closed.

Retirement of Fellows under Sec. 4, Cl. 2, of Act VIII of 1904.

Under Section 4, Clause 2, of the Indian Universities Act 1904, (VIII of 1904), tenure of office of the undermentioned gentlemen as Ordinary Fellows of the University terminated on the dates state against their names.

Babu Adharchandra Mukerjee, M.A., B.L.	... 3rd February, 1913.
Babu Jnanchandra Ghose, M.A. ...	... 28th February, 1913.
Babu Harunchanda Banerjee, M.A. ...	... 28th February, 1913.
The Hon'ble Justice Sir H. L. Stephen, Kt., LL.M.	... 22nd May, 1913.
P. C. Turner, Esq., M.A.	... 29th May, 1913.

Cancellation of Fellowship under Section 7 of Act II of 1857.

In exercise of the power conferred by Section 7 of the Act of Incorporation (Act II of 1857) the Governor General in Council was pleased to cancel the appointment of Major A. T. Gage, M.B. I.M.S., as an Ordinary Fellow of the University.

Vacancies in the lists of Honorary and Ordinary Fellows.

The following vacancies occurred during the year in the lists of Honorary, Ex-officio and Ordinary Fellows by death, resignation or retirement.

HONORARY FELLOWS.

Died.

Babu Gaurisankar De, M.A., B.L.
Shahebzada Muhammad Bukhtiyar Shah, C.I.E.

Retired.

H. E. DuS Prothero, Esq., M.A.

EX-OFFICIO FELLOWS.

Retired.

The Most Rev. R. S. Copleston, M.A., D.D., D.C.L., D.Litt.
The Hon'ble Mr. G. W. Küchler, C.I.E., M.A.

ORDINARY FELLOWS.

Died.

Babu Binayendranath Sen, M.A.

Retired.

C. Little, Esq., M.A.
The Hon'ble Justice Sir Richard Harrington, Bart., M.A.

Resigned.

H. Stephen, Esq., M.A.
Rev. Father E. O'Neill, S.J., B.A.
A. Thomson, Esq., M.A.
Manohar Lal, Esq., M.A.

Election of Fellows.

In accordance with the directions of His Excellency the Chancellor the undermentioned gentlemen were elected Ordinary Fellows by the Faculty of Arts and by the Registered Graduates, respectively.

ELECTED BY THE FACULTY OF ARTS.

Babu Adharchandra Mukerjee, M.A., B.L.

ELECTED BY THE REGISTERED GRADUATES.

Babu Jnanchandra Ghosh, M.A.
Babu Jaminibhushan Ray, M.A., M.B.

The above elections have been comfirmed by His Excellency the Chancellor.

Nominated Fellows.

The undermentioned gentlemen have been nominated as Ordinary Fellows of the University during the year :—

Dr. C. E. Cullis, M.A., Ph.D.
The Hon'ble Justice Sir H. L. Stephen, Kt., LL.M.
F. C. Turner, Esq., M.A.
The Hon'ble Mr. J. G. Cumming, C.I.E., I.C.S.
Rev. Father F. X. Crohan, S.J.
D. Hooper, Esq., F.L.S.
Babu Satischandra Ray, M.A.
Dr. Hiralal Haldar, M.A., Ph.D.
Rev. Dr. J. Watt, M.A., D.D.
Rev. Dr. G. Howells, M.A., B.D., Ph.D., B.Litt.

Constitution of the Syndicate for 1913.

The Syndicate for the year 1913-14 was constituted as follows :—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., Saraswati, Sastra-vachaspati M.A., D.L., D.Sc., B.R.A.S., F.R.S.E., F.A.S.B.,—Vice-Chancellor, *President.*

The Hon'ble Mr. W. W. Hornell, M.A., Director of Public Instruction, Bengal.

Dr. E. D. Ross, C.I.E., Ph.D. G. F. Shirras, Esq., M.A. J. R. Banerjea, Esq., M.A., B.L. Babu Birajmohan Majumdar, M.A., B.L.	Elected by the Senate.
Babu Herambachandra Maitra, M.A. H. Stephen, Esq., M.A. Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D. J. N. Das Gupta, Esq., B.A., (Oxon) Phanindralal Ganguli, Esq., M.A., B.L., F.R.A.S.	Elected by the Faculty of Arts.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E. Babu Jnanchandra Ghosh, M.A., B.L.	Elected by the Faculty of Science.
The Hon'ble Mr. Mahendranath Ray, M.A., B.L. The Hon'ble Dr. Devaprasad Sarvadhikary, C.I.E., M.A., LL.D.	Elected by the Faculty of Law.
† Lt.-Col. J. T. Calvert, M.B., M.R.C.S., L.M.S. Lt.-Col. B. H. Deare, M.B., D.P.H., I.M.S. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.	Elected by the Faculty of Medicine.
E. Heaton Esq.	Elected by the Faculty of Engineering.

The undermentioned gentlemen acted on the Syndicate during the temporary absence of some of the members.

Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., L.L.B., I.L.D.
Sir Rajendranath Mukerjee, K.C.I.E.

There were 46 meetings of the Syndicate and 17 meetings of the Senate during the year.

University Law College.

The Governing Body of the University Law College for 1913-14 was constituted as follows :—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B., Saraswati, Sastra-bachaspati., Vice-Chancellor, *President.*

Nominated by the Chief Justice of Bengal.

The Hon'ble Mr. Justice E. E. Fletcher.
The Hon'ble Mr. Justice Nalliranjan Chatterjee, M.A., B.L.
The Hon'ble Mr. Justice T. W. Richardson, M.A., I.C.S.

Resigned his fellowship during the year. Dr. Satischandra Vidyabhushan, was elected to act on the Syndicate in Mr. Stephen's place.

† Went home on leave, Lt. Col. B. H. Deare, M.B., D.P.H., I.M.S., was elected to act on the Syndicate in Col. Calvert's place.

Advocate General of Bengal, *Ex-Officio.*	The Hon'ble Dr. G. H. B. Kenrick, K.C., LL.D.
Senior Government Pleader, *Ex-Officio.*	Babu Ramchandra Mitra, M.A., B.L.
Elected by the Faculty of Law.	Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D. The Hon'ble Mr. Mahendranath Ray, M.A., B.L. L. P. Pugh, Esq., B.C.L.
Representative of the Incorporated Law Society.	Mr. Suresdrachandra Ghosh, B.A.
Legal Remembrancer, Bengal, *Ex-Officio.*	The Hon'ble Mr. E. B. Newbold, I.C.S.
Director of Public Instruction, Bengal. *Ex-Officio.*	The Hon'ble Mr. W. W. Hornell, M.A.
Principal, University Law College, *Ex-Officio.*	Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Elected by the Law College Staff.	Babu Birajmohan Majumdar, M.A., B.L. S. C. Ray, Esq., B.A., LL.B.

The Staff during the year was as follows :—

Principal

Dr. S. C. Bagchi, B.A., LL.B., LL.D.—*Bar-at-Law.*

Vice-Principal

Babu Birajmohan Majumdar, M.A., B.L.

Professors

Mr. Bijaykishore Acharyya, B.A., LL.B. (Edin), *Bar-at-Law*, and Tagore Professor of Law.
Babu Upendranarayan Bagchi, M.A., B.L., Vakil, High Court.
„ Sitarau Banerjee, M.A., B.L., Vakil, High Court.
„ Karunamay Basu, M.A., B.L., Vakil, High Court.
Mr. Manmathanath Basu, M.A. (Cantab.), *Bar-at-Law.*
Babu Sivaprasanna Bhattacharyya, B.L., Vakil, High Court.
„ Charuchandra Biswas, M.A., B.L., Vakil, High Court.
Mr. Sudhansumohan Bose, M.A., LL.B. (Cantab.), *Bar-at-Law.*
„ S. Khoda Bukah, M.A., B.C.L. (Oxon), *Bar-at-Law.*
Babu Brajalal Chakrabarti, M.A., B.L., Vakil, High Court.
„ Hiralal Chakrabarti, M.A., B.L., Vakil, High Court.
„ Mohinimohan Chakrabarti, M.A., B.L., Vakil, High Court.
Mr. Praphullakumar Chakrabarti, M.A. (Cantab.), *Bar-at-Law.*
Babu Tarakchandra Chakrabarti, B.L.
Babu Brajendranath Chatterjee, M.A., B.L., Vakil, High Court.
„ Haraprasad Chatterjee, M.A., B.L., Vakil, High Court.
„ Mohinimohan Chatterjee, M.A., B.L., Vakil, High Court.
Mr. Pramathanath Chatterjee, M.A., *Bar-at-Law.*
„ J. W. Chippendale, M.A., B.L.
„ A. C. Datta, M.A., *Bar-at-Law.*
„ Pramathanath Dutt, M.A., B.L., *Bar-at-Law.*
Babu Sumatulchandra Datta, M.A., B.L., Vakil, High Court, and Tagore Professor of Law.

University of Calcutta

MINUTES

FOR THE YEAR

1914

PART III

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Senate

FOR THE YEAR 1914.

No. 6.

THE 28TH MARCH, 1914.

Present:

HIS EXCELLENCY THE RIGHT HON'BLE THOMAS DAVID GIBSON BARON CARMICHAEL OF SKIRLING, G.C.I.E., K.C.M.G., M.A., RECTOR, IN THE CHAIR.

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTHAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E., F.A.S.B., VICE-CHANCELLOR.

EX-OFFICIO FELLOWS.

THE HON'BLE SIR LAWRENCE JENKINS, KT., K.C.I.E., K.C., B.A., CHIEF JUSTICE OF THE HIGH COURT OF JUDICATURE AT FORT WILLIAM IN BENGAL.

THE HON'BLE SIR FREDERICK WILLIAM DUKE, K.C.S.I., C.S.I., I.C.S.

THE HON'BLE MR. P. C. LYON, C.S.I., I.C.S.

THE HON'BLE MR. W. W. HORNELL, M.A.

THE HON'BLE MR. J. G. JENNINGS, M.A.

HONORARY FELLOWS.

DR. P. K. ROY, D.Sc.

NAWAB SIRAJUL ISLAM, KHAN BAHADUR, B.L.

RAJA PYARIMOHAN MOOKERJEE, C.S.I., M.A., B.L.

KHAN BAHADUR DILAWAR HOSSEIN AHMED, B.A.

BABU ISANCHANDRA BASU, M.A., B.L.

REV. FATHER A. NEUT, S.J.

NAWAB A.F.M. ABDUR RAHMAN, KHAN BAHADUR.

BABU GANESHCHANDER CHUNDER.

NAWABZADA ALIHAMEDDIN AHMED, KHAN BAHADUR.

RAI JOGINDRACHANDRA GHOSH, BAHADUR, M.A., B.L.

BABU RAMCHARAN MITRA, M.A., B.L.

J. S. ZEMIN, ESQ.

BABU NRISINHACHANDRA MUKHERJEE, M.A., B.L.

MAULAVI ABDUL KARIM, B.A.

SHAMS-UL-ULAMA AYAUN BAHAMAN.

RAI JATINDRANATH CHAUDHURI, M.A., B.L.

BABU DWARKANATH CHAKRABARTI, M.A. B.L.

BABU JOGENDRACHUNDER DUTT, M.A., B.L.

BABU JYOTIPRASAD SARBADHIKARI, M.A., B.L.

ORDINARY FELLOWS.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.

BABU GOLAPCHANDRA SARKAR, SASTRI, M.A., B.L.

SHAMS-UL-ULAMA, AHMAD.

THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.

The University of Calcutta & Acharya P.C Ray 1906-1944

Rai Kailaschandra Basu, Bahadur, C.I.E., L.M.S.

The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.

Babu Hemachandra Maitra, M.A

Babu Ramendrasundar Trivedi, M.A.

The Hon'ble Dr. Devaprasad Sarvadhikary, C.I.E., M.A., LL.D.

Babu Bhupendranath Basu, M.A., B.L.

Rai Chunilal Basu, Bahadur, M.B., F.C.S.

E. Heaton, Esq.

Dr. Kedarnath Das, M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Dr. Brajendranath Seal, M.A., Ph.D.

H. R. James, Esq., M.A.

J. N. Das Gupta, Esq., B.A.

S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.

P. R. Mukherji, Esq., B.Sc., M.R.A.S.

Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Shams-ul-Ulama Muhammad Yusoof Khan Bahadur, B.L.

Babu Lalmohan Dobe, M.A., B.L.

Rai Khirodchandra Banerjee, Bahadur, B.A., A.M.I.C.E.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., F.A.S.B.

Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

Dr. G. Thibaut, C.I.E., Ph D., D.Sc., F.A.S.B.

Babu Jnanchandra Ghose, M.A.

F. C. Turner, Esq., M.A.

Sir Rajendranath Mukherjee, K.C.I.E.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Dr. Girindranath Mukherjee, B.A., M.D.

Dr. Satischandra Bagchi, B.A., LL.B., LL.D.

W. A. J. Archbold, Esq., M.A., LL.B.

Shams-ul-Ulama Abu Nasr Muhammad Waheed, M.A.

Pandeya Ramavatara Sarma, Sahitya-chariya, M.A.

Rai Saheb Dineschandra Sen, B.A.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Babu Jamini Bhushan Ray, M.A., M.B.

Babu Pramathanath Ganguli, M.A., B.L., F.R.A.S.

Lt.-Col. J. T. Calvert, M.B., M.R.C.P., D.P.H., I.M.S.

E. H. Roberton, Esq., B.A., M.Sc., F.G.S.

Rai Annadaprasad Sarkar, Bahadur, B.E.

J. R. Banerjee, Esq., M.A., B.L.

Babu Brajmohan Majumdar, M.A., B.L.

Babu Raidyanath Narayan Sinha, M.A., B.L.

Babu Kalipada Basu, M.A.

Shams-ul-Ulama Kamaluddin Ahmad, M.A.

Babu Bidhubhushan Goswami, M.A.

L. P. Pugh, Esq., B.C.S.

W. Owston Smith, Esq., B.A.

The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.

F. W. Sörensen, Esq., B.A.

R. W. F. Shaw, Esq., M.A.

J. N. Mitra, Esq., M.A.

Rev. Father F.X. Croman, S.J.

The Hon'ble Mr. Justice H. Holmwood, I.C.S.

Babu Jamini Bhushan Ray, M.A., M.B.

The Hon'ble Mr. J. C. Cumming, C.I.E., B.A., I.C.S.

Babu Satischandra Ray, M.A.

DR. HIRALAL HALDAR, M.A., PH.D.
REV. DR. J. WATT, M.A., D.D.
C. J. HAMILTON, ESQ., M.A.
REV. G. HOWELLS, M.A., B.D., B. LITT.
DR. OTTO-STRAUSS, PH.D.

S. 76. The Convocation was held for conferring the Ordinary Degrees of the year.

Owing to the unavoidable absence of His Excellency the Chancellor, His Excellency the Rector presided on the occasion.

The Ex-Officio Fellows, the Honorary Fellows and the Ordinary Fellows of the University, who had previously signified their intention of attending the Convocation, assembled, in academic costume, at the Senate House, College Square, at 2-30 P. M. At 2-40 P. M. they proceeded to the Entrance Hall and took their places in processional order according to the list previously supplied to them.

At 2-50 P. M. the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar received His Excellency the Rector, at the foot of the staircase and conducted him to the Entrance Hall where he was received by the Fellows. He then proceeded to the South room in the Entrance Hall where he robed.

A procession was then formed which entered the Hall in the following order:

THE REGISTRAR.

MEMBERS OF THE SYNDICATE,

ARRANGED TWO AND TWO

IN ORDER OF SENIORITY.

HIS EXCELLENCY THE RECTOR.

THE HON'BLE THE VICE-CHANCELLOR.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.

EX-OFFICIO FELLOWS, ARRANGED TWO AND TWO

IN ORDER OF SENIORITY.

HONORARY FELLOWS, ARRANGED TWO AND TWO

IN ORDER OF SENIORITY.

ORDINARY FELLOWS, ARRANGED TWO AND TWO

IN ORDER OF SENIORITY.

Visitors stood up as the procession entered the Hall and remained standing until His Excellency the Rector had taken his seat on the dais.

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 19.

THE 9TH MAY, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
B. HEATON, ESQ.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
C. J. HAMILTON, ESQ., M.A.
DR. G. HOWELLS, M.A., B.D., PH.D., B.LITT.

1954. The Minutes of the Syndicate, dated the 2nd May, 1914, were read and confirmed.

1955. Read the following Report on the B. B. College, Muzafferpur, for 1913-14:—

Report on the B. B. College, Muzafferpur, for 1913-14.

(INSPECTED ON THE 27TH AND 28TH NOVEMBER, 1913)

I. Governing Body.

There has been no change in the Governing Body. It consists of a Board of Trustees and a Managing Committee. The Managing Committee had 18 meetings from October, 1912, to November, 1913.

II. Accommodation.

Some structural alterations have been made in the old Bungalow and a temporary building consisting of 4 class-rooms (2, 40′ × 28′ each and 2, 20′ × 28′ each) is in course of construction and will be ready for occupation before the opening of the next session.

III. Teaching staff.

(i) Changes.—

Babu Bindeshwar Prasad, M.A. in English, Group A, Class III, non-collegiate student, Calcutta University (1913), was appointed Assistant Professor of English on Rs. 100-10-150 a month on the 4th November, 1913.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the papers relating to the case be forwarded to the Divisional Inspector of Schools for enquiry and report.

2028. Read a letter from the Head Master, Telinipara Bhadreswar H. E. School, requesting, with reference to this Office Circular No. 6770, dated the 26th March, 1914, that the age-entry of Sachinath Chattopadhyay may be permitted to be altered in the records of the above-named school, and enclosing a horoscope and an affidavit in support of his application.

ORDERED—

That the papers relating to the case be forwarded to the Divisional Inspector of Schools for enquiry and report.

2029. Read a letter from Babu Lalbihari Baral, forwarding two copies of his book "Meditations of Marcus Aurelius" for consideration as to its suitability as a text-book.

ORDERED—

That the book be referred to the Board of Studies in Sanskritic Languages for opinion.

2030. Read a letter from Babu Ramdas Hajra, forwarding a copy of his book "Kavita Katha" for consideration as to its merits as a text-book for the Intermediate and B.A. Examinations in Bengali, and requesting the University to purchase the copy right of the book.

ORDERED—

That the book be referred to the Board of Studies in Sanskritic Languages for opinion.

2031. The Registrar placed before the Syndicate certain School and College Reports for further consideration.

RESOLVED—

That the Hon'ble the Vice-Chancellor be requested to inspect as many Colleges and Schools as possible and to favour the Syndicate with his notes of inspection which are to be placed before the following Committees for consideration :—

School Committee.

The Hon'able the Vice-Chancellor, *President.*
The Hon'ble Mr. W. W. Hornell, M.A.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
P. Mukharji, Esq., B.Sc., M.R.A.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Master of the above-named School may be authorised to correct the age entry of his son, Sailendranath Kundu, according to the affidavit and the horoscope enclosed with the application.

ORDERED—

That the papers relating to the case be forwarded to the Divisional Inspector of Schools for enquiry and report.

2113. Babu Jnanchandra Ghosh moved that a Committee be appointed to frame rules for the award of remuneration to Demonstrators, Assistants and Bearers, helping in the Practical Examination in Science subjects.

RESOLVED—

That the motion be adopted and that the following Sub-Committee be appointed to frame rules :—

The Hon'ble the Vice-Chancellor—*President.*
The Hon'ble Babu Mahendranath Ray, M.A., B.L.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
B. Heaton, Esq.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Babu Jnanchandra Ghosh, M.A.

2114. Read endorsements from the Principal and Vice-Principal, University Law College, forwarding applications from the undermentioned students of the College whose attendance at lectures has fallen short of the required number through illness and other causes and who pray for admission to the ensuing Law Examinations stated against their names either as regular students of the College or as non-collegiate students :—

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 20

THE 10TH MAY, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D., VICE-CHANCELLOR, IN THE CHAIR.

THE HON'BLE BABU MANENDRANATH RAY, M.A., B.L.	MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
REV. DR. J. WATT, M.A., D.D.	BABU JNANCHANDRA GHOSH, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.	J. R. BANERJEA, ESQ., M.A., B.L.
B. HEATON, ESQ.	BABU HIRAJMOHAN MAJUMDAR, M.A., B.L.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., B.D., PH.D.	LT.-COL. B. H. DRAKE, M.B., D.P.H., I.M.S.
J. N. DAS GUPTA, ESQ., B.A.	C. J. HAMILTON, ESQ., M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.	DR. G. HOWELLS, M.A., B.D., PH.D., B.LITT.

2036. The Minutes of the Syndicate, dated the 9th May, 1914, were read and confirmed.

2037. Read a letter from the Private Secretary to His Excellency the Governor of Bengal, forwarding letter No. 720, dated the 22nd April, 1914, from the Offg. Joint-Secretary to the Government of India, Department of Education, stating, with reference to this Office letter No. 6744, dated the 25th March, 1914, that under Section 22, read with Section 21, Sub-section (3) of the Indian Universities Act 1904 (VIII of 1904), the Government of India are pleased to order that, with effect from the commencement of the ensuing session, the Serampur College shall be affiliated to the Calcutta University in Hebrew to the B.A. Pass standard.

ORDERED—

That the order of the Government of India conveyed in the above letter be recorded and that it be communicated to the

University of Calcutta

MINUTES

FOR THE YEAR

1914

PART IV

Calcutta
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 26.

THE 29TH JUNE, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
J. N. DAS GUPTA, Esq., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, Esq., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
REV. DR. J. WATT, M.A., D.D.
DR. G. HOWELLS, M.A., PH.D., B.D., B.Litt.

2518. The Minutes of the Syndicate, dated the 20th June, 1914, were read and confirmed.

2519. Read a letter from the Director of Public Instruction, Assam, stating, with reference to this Office letter No. 10806 that Mr. F. W. Südmersen and Dr. D. Thomson of the Cotton College have been permitted to inspect the Murarichand College, Sylhet, jointly with the University Inspector of Colleges on behalf of the University.

ORDERED—

To be recorded.

2520. Read a letter from the Director of Public Instruction, Bihar and Orissa, forwarding a copy of a report on the Govinda Das Lang Institution at Raghunathpur, in which the continuance of its recognition is recommended provided that the following

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the books be referred to the Board of Studies in Sanskritic Languages.

2573 The Registrar reported that he had received the following suggestions for selecting subjects for investigation for the Jubilee Research Prize in Science for the year 1915 :—

Name of Proposer.	*Subjects for investigation.*
1. Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.C.S.	I. The Geological functions of Jhils. II. Investigations into the Freshwater Plancton of Bengal.
2. The Hon'ble Mr. J. G. Cumming, C.I.E., B.A., I.C.S.	I. Cyclones and Storm Waves in Bengal.
3. F. W. Sudmersen, Esq., M.A.	I. Relation (if any) between the Magnetic Susceptibilities of the metals and the magnitudes of the variation of their electrical conductivities when magnetized. II. The determination of the conductivities of different specimens of Ceylon graphite and their variation with temperature. III. The damping of electrical oscillation in circuit containing Leydan jars and its variation with the temperature of dielectric. IV. The relation between optical Rotatory Power and Chemical constitution.
4. Dr. Girindranath Mukherjee, B.A., M.D.	I. Identification of Indian medicinal plants.
5. Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.	I. Tautomerism in Organic Thio-compounds—how to bring it about and how to diagnose it.
6. Rai Rajendrachandra Sastri, Bahadur, M.A.	I. Application of Chemistry in the development of Indian Arts and Manufactures.

RESOLVED—

That the following subject be named for investigation for the Jubilee Research Prize in Science for the year 1915 :—

"The Geological functions of Jhils."

ORDERED—

That the subject selected for the Prize be notified in the Gazette and be communicated to the Heads of affiliated Institutions.

2574. Read the Minutes of the Faculty of Law, dated the 10th June, 1914.

University of Calcutta

MINUTES

FOR THE YEAR

1914

PART V

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 29.

THE 18TH JULY, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARI, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
H. R. JAMES, Esq., M.A.
B. HEATON, Esq.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, Esq., B. A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, Esq., M.A., B.L.
BABU HIRALMOHAN MAJUMDAR, M.A., B.L.
C. J. HAMILTON, Esq., M.A.

2783. The Minutes of the Syndicate, dated the 10th July, 1914, were read and confirmed.

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2798. Read an endorsement from Dr. P. C. Ray, forwarding an application from Niharranjan Chatterjee, who passed the B.Sc. Examination in 1913 with Second Class Honours in Chemistry, requesting permission to offer a piece of research work in Organic Chemistry in lieu of a portion of the theoretical examination at the M.Sc. Examination in Chemistry in 1915.

ORDERED—

That Dr. P. C. Ray be informed that a piece of research work in Organic Chemistry to be submitted by the applicant will be accepted in lieu of examination in the other two branches of the subject provided the work embodies the result of research conducted by the applicant independently and is not a joint production.

202

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 30.

THE 24TH JULY, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D.,
Vice-Chancellor, in the Chair.

THE HON'BLE BABU MANMOHANATH RAY, C.I.E., M.A., B.L.

BABU HERAMBACHANDRA MAITRA, M.A.

THE HON'BLE DR. NILRATAN SARKAR M.A., M.D.

J. N. DAS GUPTA, ESQ., B.A.

H. R. JAMES, ESQ., M.A.

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

BABU JNANCHANDRA GHOSH, M.A.

J. E. BANERJEA, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

C. J. HAMILTON, ESQ., M.A.

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3090. Read an endorsement from Dr. P. C. Ray, forwarding an application from Francis V. Fernandes, who passed the B. Sc. Examination with Honours in Chemistry, requesting permission to offer a piece of research work in lieu of a portion of the M.Sc. Examination in Chemistry in 1915.

ORDERED—

That Dr. P. C. Ray be informed that the thesis on the condensation of Chloracetic Acid with Thiocompounds and on Chlorination by means of Aqua Regia, which the applicant proposes to offer in the special branch of Chemistry taken up by him will be accepted in lieu of examination in the other two subjects provided the thesis be the record of original research conducted by him independently.

3091 Read an application from certain unsuccessful candidates at the last B. A. Examination, praying that some grace

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 31.

THE 1ST AUGUST, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D.,
Vice-Chancellor, in the Chair.

THE HON'BLE BABU MAHENDRANATH RAY, M.A., B.L.
B. HEATON, ESQ.
J. N. DAS GUPTA, ESQ., B.A.
H. R. JAMES, ESQ., M.A.
S. C. MAHALANABIS, ESQ., D.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIHARIMOHAN MAZUMDAR, M.A., B.L.

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8132. Read an endorsement from Dr. P. C. Ray, forwarding an application from Jogendrakumar Chaudhuri, who passed the B.Sc. Examination in 1913 with First Class Honours in Chemistry, requesting permission to offer a piece of research work in Organic Chemistry in the following subjects in lieu of a portion of the M.Sc. Examination in Chemistry in 1915:—

(1) Some new Organic Oxydation reactions including Catalitic Oxydation with Osmiumtetroxide.

(2) Methods of estimation of semicarbazide, thio-semicarbazide, semi-oxamazide, carbohydrazide and allied compounds by their interaction with halogens and halogen oxyacids and indirectly the estimation of the latter bodies.

ORDERED—

That Dr. P. C. Ray be informed that the piece of research work in Organic Chemistry which the applicant proposes to offer will be accepted in lieu of examination in Physical and Inorganic Chemistry provided it be proved to the satisfaction of the Syndicate that the research work has been conducted by the applicant independently without the aid or advice of any other person.

3133. Read an endorsement from Dr. P. C. Ray, forwarding an application from Jnanendranath Sen, who passed the B.Sc. Examination in 1913 with Second Class Honours in Chemistry, requesting permission to be exempted from a part of the M.Sc. Examination next year in Chemistry and to be allowed to offer a piece of research work in Organic Chemistry in its place in the following subjects:—

(1) The application of potassium persulphate as a condensing reagent.

(2) Extension of the methods of fluination.

(3) Condensation of chloral hydrate with thiourea.

ORDERED—

That Dr. P. C. Ray be informed that the applicant will be allowed to submit a piece of research work on the subjects named above in lieu of examination in the other two branches of Chemistry provided it be proved to the satisfaction of the Syndicate that the research has been conducted by the applicant independently without the help or advice of any other person.

3134. Read an application from Akhilchandra Das, who passed the B.A. Examination in 1907, requesting permission to appear at the M.A. Examination in 1915 in History as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in History as a non-collegiate student.

3135. Read an application from T. B. Kulkarni, an unsuccessful candidate at the M.A. (Previous) Examination of the Allahabad University in 1913, who passed the B.Sc.

University of Calcutta

MINUTES

FOR THE YEAR

1914

PART VII

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 41.

THE 16TH NOVEMBER, 1914.

Present.

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A. LL.D.—*Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI BAHADUR UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J.N. DAS GUPTA, ESQ., B.A.
H.R. JAMES, ESQ., M.A.
S. C. MAHALANABIS, ESQ., B. SC., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISHCHANDRA VIDYABHUSHAN, M.A., PH. D
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J.T. CALVERT, M.B., R.C.P., D.P.H., I.M.S.
J.R. BANERJEA, ESQ., M.A., B.L.
BABU HIRAJMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. B.H. DEARE, M.B., D.P.H., I.M.S.
C.J. HAMILTON, ESQ., M.A.

4041. The Minutes of the Syndicate, dated the 12th, 18th and 22nd September and 7th October, 1914, were read and confirmed.

4042. The Hon'ble the Vice-Chancellor made a statement regarding Sir Taraknath Palit's Trust Estate and suggested that the Senate be moved to appoint a Committee of Experts to advise the Syndicate from time to time as to what should be done regarding various matters arising out of the estate and that some one be authorised to act on behalf of and represent the University in regard to various matters arising out of the Trust, such as executing the deed of transfer of the Trust and so on.

RESOLVED—

(i) That the University be represented by the Hon'ble Dr. Devaprasad Sarvadhikary, C.I.E., M.A., LL.D., Vice-Chancellor of the University, in regard to matters arising out of the Trust of Sir Taraknath Palit, whether under his Trust Deeds, the deed of Transfer of the Trusts or otherwise.

Universities Act of 1904 (VIII of 1904), the Government of India sanction the proposal to change the Regulations of the Calcutta University in order to include Khasi in the list of vernaculars for the I.A. and I.Sc. Examinations.

ORDERED—

That the letter be recorded and that the change in the Regulations including Khasi in the list of vernaculars for the I.A. and I.Sc. Examinations be notified in the Gazette to come into operation from the Examinations in 1916.

ORDERED ALSO—

That the Director of Public Instruction, Assam, be informed that Khasi has been included in the list of vernaculars for the I.A. and I Sc. Examinations with effect from the Examinations in 1916, and that he be requested to name suitable standard works in Khasi to be read as presenting models of style.

4092. The Registrar placed before the meeting the report submitted by Mr. Hemendrakumar Sengupta, showing the research work done by him during the last year as a Premchand Roychand Research Scholar.

RESOLVED—

That Dr. P. C. Ray be requested to examine and report on the thesis submitted by the scholar.

4093. Read a letter from Mr. Majid Ali, stating that the printing charges, excluding paper and binding, for 250 copies of the selections from Roga'at-i Qaim Maqam in demy octavo size, in Nasta'liq character and in lithograph will be at the rate of twelve annas per page and that the manuscript will occupy 180 pages more or less of the print.

ORDERED—

That the rate quoted be accepted and that the Registrar be requested to take prompt steps for the printing and publication of the work.

4094. Read an application from Heremhachandra Lahiri, an unsuccessful candidate at the last I.A. Examination, who, owing to his defective eye-sight, finds it difficult to attend college and whose case was recommended last year by the Principal of the L.M.S. College at Bhowanipur as deserving of special consideration by the Syndicate, praying that he may be allowed to sit for the next I.A. Examination as a non-collegiate student or to proceed to the Examination after attending lectures in

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 44.

THE 5TH DECEMBER, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.
THE HON'BLE BABU MANMOHANATH RAY, C.I.E., M.A., D.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D., F.A.S.B.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIHARIMOHAN MAJUMDAR, M.A., B.L.

4496. The Minutes of the Syndicate, dated the 27th/28th November, 1914, were read and confirmed.

4497. Read the Minutes of the Faculty of Law, dated the 23rd November, 1914.

ORDERED—

To be recorded.

4498. Read a letter from the Secretary, Ripon College Council, Calcutta, requesting that the Ripon College may be affiliated in Physics to the B.A. and B. Sc. Pass standards and in Chemistry to the B.Sc. standard.

RESOLVED—

That Mr. C. W. Peake, M.A., and Dr. P. C. Mitter, M.A., Ph.D., be requested to inspect the Ripon College and to favour the Syndicate with a report on the claims of the college for affiliation in Physics and Chemistry to the B.A. and B.Sc. Pass standards.

The University of Calcutta & Acharya P.C.Ray 1906-1944

an application from certain students of the above-named college, praying that early steps may be taken for the payment of the Maharaja of Cossimbazar Scholarships for the current session.

ORDERED—

That the Registrar be authorised to advance from the Fee Fund the necessary amount for the payment of the above scholarships to be recouped later on.

4890. Read a letter from the Collector to the Calcutta Corporation, enquiring whether the rate bills of the following properties, which have vested in the Calcutta University under a will left by the late Sir Taraknath Palit may be presented to this office for payment :—

			Rs.	A.	P.
6, Munshi Ullulla Lane	... Owner	...	11	13	6
7, Do.	... "	...	21	4	9
25, Ballygunj Circular Road	... "	...	203	8	0
35, Do.	... Occupier	...	203	8	0
60-3, Dhakuria Road	... Bustee	...	1	7	9
132-4, Russa Road South	... "	...	1	8	0
148, Tollygunge Road	... "	...	6	11	0
28, Garcha Road	... Owner	....	1	9	0
132-1, Russa Road South	... "	...	1	2	0

ORDERED—

That the Registrar be authorised to pay the bills from the Fee Fund of the University and subsequently to recoup the amount from Sir Taraknath Palit Trust Fund.

4891. Read the following Proceedings of the Governing Body of Sir Taraknath Palit Endowment, dated the 3rd December, 1914 :—

"Considered at the request of the Syndicate, a letter from the Director of Public Instruction, Bengal, enquiring, with reference to this Office letter No. 6082, dated the 3rd March, 1914, whether the Syndicate was prepared to pay at the rate of Rs. 212-8 per mensem on account of contribution for Pension and Leave allowance of Dr. P. C. Ray, on joining his appointment of Palit Professor of Chemistry.

RESOLVED—

That the Governing Body of Sir Taraknath Palit Endowment recommend to the Syndicate that the pension and leave allowance of Dr. P. C. Ray amounting to Rs. 212-8-0 per mensem be paid by the University from the date of his joining his appointment as Sir Taraknath Palit Professor of Chemistry.

The University of Calcutta & Acharya P C Ray 1906-1944

Read a letter from Babu Haripada Chakrabarti, stating that the Jhil in the premises of the late Sir Tarakanath Palit, Kt., at Ballygunj, is in a very bad condition, and that a person is willing to take lease of the Jhil for three years, if he can get it for Rs. 50 for the first year and Rs. 200 for the next two years.

RESOLVED—

That the Governing Body recommend to the Syndicate that the Jhil, situated in the premises of No. 35, Ballygunj Circular Road, be leased out for a term of two years, the lessee to pay Rs. 50 per year during the first year and Rs. 100 per year during the second year (instead of 3 years as mentioned in his application) on condition that the Jhil be thoroughly cleaned without delay and kept clean during the remaining part of the lease.

The Hon'ble the Vice-Chancellor reported on the progress made in the construction of the University College of Science and explained the present financial position with regard to it.

It was resolved that the Governing Body recommend to the Syndicate that—

(a) the Hon'ble the Vice-Chancellor be requested to settle and adjust the various points arising out of the building contract with a view of expediting the progress of the building;

(b) that a portion of the Government Securities set apart for the construction of the building be for the present pledged with the Bank of Bengal to pay for the constructions of the building as may be necessary from time to time.

The Hon'ble the Vice-Chancellor also informed the Governing Body of the arrangements made for the pay of the University sub-agent Babu Haripada Chakrabarti (who last been appointed by the Syndicate at Sir T. Palit's instance on the 4th October, 1914), and of a strike to assist him. Babu Haripada Chakrabarti's pay had been fixed at Rs. 40 per month and the Sirkar's pay at not exceeding Rs. 20 a month.

RESOLVED

That the arrangements be recorded and approved.

RESOLVED ALSO—

That scholarships to the value of Rs. 100 each per mensem be awarded to Babus Rasiklal Datt, M.Sc., and Nikunja Dhar, M.Sc., for a term of one year and that a scholarship of Rs. 75 per mensem be awarded to Babu Rajendralal De, M.Sc., for the same period, the scholarships tenable from the 1st of January, 1915, and the scholarship holders to carry on research under Dr P. C. Ray, the Professor-designate of Chemistry under Sir Tarakanath Palit Endowment."

RESOLVED—

That the Proceedings be confirmed.

4592. Read a letter from the Hon'ble Nawab Sayed Nawab Ali Chowdhury, having reference to the case of two students of the Victoria College, Comilla, who, after passing the Matriculation Examination with Arabic as their classical language, have

345

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 45.

THE 12TH DECEMBER, 1914.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, C.I.E., M.A., LL.D.,
Vice-Chancellor, in the Chair.

THE HON'BLE MR. W. W. HORNELL, M.A.
THE HON'BLE RAJU MANMOHANARAYE RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
R. HEATON, Esq.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, Esq., B.A.
H. R. JAMES, Esq., M.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, Esq., M.A., B.L.
C. J. HAMILTON, Esq., M.A.

4595. The Minutes of the Syndicate, dated the 5th December, 1914, were read and confirmed.

4596. Read an application from Satischandra Gupta, who passed the Entrance Examination in 1909, and who has been permitted to appear at the next I.Sc. Examination as a non-collegiate student with English, Bengali, Physics, Chemistry and Physiology as his subjects, praying that, in consideration of the fact that he passed in Physiology at the Campbell Medical School, he may be allowed to attend Practical Classes in Physics and Chemistry at the Indian Association for the Cultivation of Science and that his attendance in Physiology may be excused.

ORDERED—

That the application be granted.

4597. Read the Minutes of the Faculty of Arts, dated the 22nd August, 1914.

ORDERED—

To be recorded.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the application be granted.

4718. Considered the constitution of the Faculties for the year 1915.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties for the year 1915 be constituted as follows:—

FACULTY OF ARTS.

The Hon'ble Dr. Devaprasad Sarvadhikary, C.I.E., M.A., LL.D., *Vice-Chancellor.*
The Hon'ble Mr. W. W. Hornell, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Babu Golapchandra Sarkar, Sastri, M.A., B.L.
The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastra-vachaspati, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.,
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Babu Herambachandra Maitra, M.A.
Babu Ramendrasundar Trivedi, M.A.
Babu Bhupendranath Basu, M.A., B.L.
Babu Adharchandra Mukerjee, M.A., B.L.
The Hon'ble Mr. Madhusudan Das, C.I.E., M.A., B.L.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
H. R. James, Esq., M.A.
C. Russell Esq., M.A.
Rai Saheb Bhagabati Sahay, M.A., B.L.
P. B. Mukharji, Esq., B.Sc. M.R.A.S.
J. N. Das Gupta, Esq., B.A.
Rai Rajendrachandra Sastri, Bahadur, M.A.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
C. W. Peake, Esq., M.A.
Rev. S. L. Thompson, B.A.
F. C. Turner, Esq., M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Shams-ul-Ulama Abu Nasr Muhammad Waheed, M.A.
Pandeya Ramavatara Sarma, Sahityacharyya, M.A.
Rai Saheb Dineschandra Sen, B.A.
R. Nathan, Esq., C.S.I., C.I.E., B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguli, M.A., B.L., F.R.A.S.

ORDERED—

That the license applied for be granted.

Read an application for license for the Mess at Schooldanga, attached to the Wesleyan College, Bankura.

ORDERED—

That the license granted to the Mess last session be renewed.

Read an application for license for the Mess at Islampur Road, attached to the B. B. College, Muzaffarpur.

ORDERED—

That the license granted to the mess last session be renewed.

Read an application for license for the Mess attached to the Victoria College, Comilla.

ORDERED—

That the license granted to the Mess last year be renewed.

Read an application for license for the Mess at Sahebganj, attached to the Rajshahi College.

ORDERED—

That the license applied for be granted.

ORDERED ALSO—

That the authorities of the Rajshahi College be informed that in future certificates testifying to the sanitary conditions of a house should be signed either by Assistant Surgeon or by Civil Surgeon, if possible.

Read an application for license for the Mess at Kumarpara attached to the Rajshahi College.

ORDERED—

That the authorities of the Rajshahi College be informed that the medical certificate furnished is not definite and that the license applied for is granted provisionally subject to the condition that another medical inspection is made and the report as to the sanitary condition of the house is submitted without delay.

Read an application for license for the Mess at Masterpara attached to the Rajshahi College.

ORDERED—

That the license applied for be granted.

Read an application for license for the Mess at Hatemkhan Malthalla attached to the Rajshahi College.

University of Calcutta

MINUTES

FOR THE YEAR

1914

PART VIII

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Minutes of the Syndicate

FOR THE YEAR 1914.

No. 47.

THE 22ND DECEMBER, 1914.

Present:

THE HON'BLE DR. DWARKANATH SARVADHIKARY, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU PRANENDRALAL GANGULI, M.A., B.L.
LT.-COL. J. T. CALVERT, M.R., M.R.C.P., D.P.H., I.M.S.
J. R. PANNERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

4806. Read the following Report of the Board of Examiners for the Final M.B. Examination held in November last :—

"FROM

THE BOARD OF EXAMINERS FOR THE FINAL M.B. EXAMINATION, NOVEMBER, 1914.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Senate House, the 22nd December, 1914.

SIR,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the Final M.B. Examination held in November, 1914.

The number of candidates registered for the Examination in the Major subjects only was 19, all of whom were present at the Examination. Of these 12 passed and 7 failed, 5 failing in Surgery only whilst two failed in Surgery and Midwifery.

One candidate was registered for Examination in Medical Jurisprudence only and passed.

The number of candidates registered for the Examination in both Major and Minor subjects was 14, none of whom was absent; 4 passed and 10 failed; of these 3 failed in one subject only, 2 failed in two, 3 failed in three, and 1 failed in 4 subjects.

Sir Taraknath Palit Research Scholarship.

On the recommendation of the Governing Body of the College of Science, the Syndicate have awarded on the foundation of Sir Tarak-nath Palit, two Research Scholarships of Rs. 100 a month each, tenable for two years, to each of the two following students :—

Babu Anukulchandra Sarkar, M.A.
Babu Sisirkumar Mitra, M.Sc.

The Syndicate have further awarded two scholarships of the value of Rs. 100 each per mensem to Babu Rasiklal Datta, M.Sc. and Babu Nihatan Dhar, M.Sc. for a term of one year and also a scholarship of Rs. 75 per mensem to Babu Rajendralal De, M.Sc., for the same period, the scholarships being tenable from the 1st of January, 1915, on condition that the Scholars carry on re-search under Dr. P. C. Ray, the Professor-designate of Chemistry under Sir Tarakanath Palit endowment.

Dr. Rashbehary Ghose Scholarship.

On the recommendation of the Board of Management, the following scholarships of Rs. 75 a month each payable out of Dr. Rashbehary Ghose's Endowment have been awarded by the Syndicate to each of the following students.

Applied Mathematics.

Babu Hariprasanna Banerjee, M.Sc.
„ Sudhansukumar Banerjee, M.Sc.
„ Bibhutibhushan Datta, M.Sc.

Chemistry.

Babu Rameschandra Ray, M.Sc.
„ Amulyakumar Bhattacharyya, M.Sc.

Physics.

Babu Kumarnath Banerjee, M.Sc.

Representative of the University on the Court of Visitors of the Indian Institute of Science, Bangalore.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., has been re-elected by the Senate as the Representa-tive of the University on the Court of Visitors of the Indian Institute of Science at Bangalore.

Changes in the Regulations sanctioned by the Government of India.

On the recommendation of the Syndicate and the Senate the Government of India have sanctioned the following changes in the Regulations of the University :—

The University of Calcutta & Acharya P.C.Ray 1906-1944

Death of Field-Marshal Earl Roberts.

The Senate on the motion of the Hon'ble the Vice-Chancellor recorded the following Resolution at their meeting on the 21st of November, 1914, on the death of Field-Marshal Earl Roberts of Kandahar, V.C., K.G., K.P., G.C.B., O.M., G.C.S.I., G.C.I.E., V.D. :—

The Senate of the Calcutta University at a meeting assembled desire to place on record their deep sense of loss to the Empire, and to this University in particular, caused by the death of Earl Roberts, who, from 1885 to 1893, was an active Member of the Faculty of Engineering in this University and as such took a keen interest in its welfare. The Senate sincerely mourn his loss and desire that their condolence and heartfelt sympathy may be communicated to Lady Roberts in her present bereavement.

Constitution of the Syndicate for 1914.

The Syndicate for the year 1914-15 was constituted as follows :—

The Hon'ble Dr. Devaprasad Sarvadhikary, Sarkaryas, C.I.E., M.A., LL.D., Vice-Chancellor,—*President*.

MEMBERS.

The Hon'ble Mr. W. W. Hornell, M.A., Director of Public Instruction,—*Ex-officio*.

ELECTED BY THE SENATE.

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Babu Herambochandra Maitra, M.A., Principal, City College, Calcutta.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D., Principal, Sanskrit College, Calcutta.
Lt.-Col. B. H. Deare, M.B., L.M.S., Professor, Medical College, Calcutta.

ELECTED BY THE FACULTY OF ARTS.

H. R. James, Esq., M.A., Principal, Presidency College, Calcutta.
J. N. Das Gupta, Esq., B.A. (Oxon.) Professor, Presidency College, Calcutta.
Dr. G. Thibaut, C.I.E., Ph.D., D.Sc., Carmichael Professor of Ancient Indian History and Culture. (Died in October, 1914. Babu Phanindralal Ganguli, M.A., B.L., F.R.A.S., elected to act in the place of Dr. Thibaut during the remainder of the year.)
J. R. Banerjea, Esq., M.A., B.L., Vice-Principal, Metropolitan Institution.

ELECTED BY THE FACULTY OF SCIENCE.

S. C. Mahalanabis, Esq., B.Sc., F.R.S.E., Professor, Presidency College, Calcutta.
Babu Jnanchandra Ghosh, M.A., Professor, Scottish Churches College, Calcutta.

ELECTED BY THE FACULTY OF LAW.

The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Babu Hirajmohan Majumdar, M.A., B.L., Vice-Principal, University Law College.

ELECTED BY THE FACULTY OF MEDICINE.

Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
Lt.-Col. J. T. Calvert, M.B., M.R.C.S., L.M.S., Principal, Medical College, Calcutta.

C. J. Hamilton, Esq., M.A.
Dr. W. H. Young, M.A., D.Sc., F.R.S.
Dr. Otto Strauss, Ph.D.

Added Member.

† Robert Leslie, Esq., M.A.

FACULTY OF SCIENCE.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., *Dean.*
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Bose, Bahadur, M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
‡ P. B. Mukerji, Esq., B.Sc., M.R.A.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.A.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., F.A.S.B.
Lt.-Col. Sir Leonard Rogers, Kt., C.I.E., M.D., F.R.C.S., I.M.S.
C. W. Peake, Esq., M.A.
Babu Jnanendra Ghosh, M.A.
E. P. Harrison, Esq., Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
‡ Dr. Girindranath Mookerjee, B.A., M.D.
† Dr. H. H. Hayden, C.I.E., D.Sc., B.A., B.E., F.G.S.
Dr. E. R. Watson, M.A., D.Sc.
S. W. Kemp, Esq., B.A.
§ D. Hooper, Esq., F.L.S.
Rev. Dr. J. Watt, M.A., D.D.
Dr. W. H. Young, M.A., D.Sc., F.R.S.
C. S. Middlemiss, Esq., B.A., F.G.S.

Added Members.

Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Rev. J. Mitchell, M.A.

3176

CALCUTTA UNIVERSITY.

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B.A. & B.Sc. EXAMINATIONS, 1914.

MATHEMATICS.

PAPER-SETTERS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Shastrabachaspati, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.C., F.A.S.B.
Rai Bahadur Abinaschandra Basu, M.A.
Mr. Phanindralal Ganguli, M.A., B.L.
The Hon'ble Babu Mahendranath Ray, M.A., B.L.
Dr. Syamadas Mukerjee, M.A., Ph.D.

EXAMINERS.

Pass.

Dr. Ganes Prasad, B.A., D.Sc.
Babu Indubhushan Brahmachari, M.A., B.L.
R. W. F. Shaw, Esq., M.A.
Babu Kaliprasanna Chattopadhyay, M.A.
" Saradaprasanna Das, M.A.
" Asutosh Chatterjee, M.A.

Honours.

J. M. Bottomley, Esq., B.A.
Dr. Haridas Bagchi, M.A., Ph.D.
Babu Krishnaprasad De, M.A.

Honours.

Dr. W. A. K. Christie, Ph.D.
Dr. K. S. Caldwell, Ph.D.
Dr. D. Thomson, M.A., B.Sc., Ph.D.
Dr. E. R. Watson. D.Sc.

PRACTICAL.

Pass and Honours

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.,—*Chairman of the Board.*

PRESIDENCY COLLEGE CENTER.

Mr. Chandrabhushan Bhaduri, B.A., F.C.S.
Professor R. N. Sen, M.A., M.Sc.

SCOTTISH CHURCHES COLLEGE CENTER.

Babu Ramendrasundar Trivedi, M.A.
„ Jyotibhushan Bhaduri, M.A., F.C.S.

ST. XAVIER'S COLLEGE CENTER.

Mr. Bidhubhushan Datta, M.A.
Rev. Father J. Dühr, *S.J.*

DACCA COLLEGE CENTER.

Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitra, M.A., Ph.D.

GAUHATI COLLEGE CENTER.

D. Thomson, Esq., M.A., B.Sc., Ph.D.
Dr. P. C. Mitra, M.A., Ph.D.

RANGOON COLLEGE CENTER.

M. J. Hunter, Esq., M.A.
A. E. Bellars, Esq., M.A.

PHYSIOLOGY.

The Hon'ble Dr. Kiliratan Sarkar, M.A., M.D.—*Paper-Setter and Examiner.*
Major D. McCay, M.S., I.M.S.—*Paper Setter.*
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.—*Paper-Setter and Examiner.*
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.—*Examiner.*

BOTANY.

PAPER-SETTERS.

C. C. Calder, Esq.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
M. J. Butler, Esq., M.B., F.L.S.

EXAMINERS.

C. C. Calder, Esq.
Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
Dr. Girindranath Mukerjee, M.A., M.D.

J. R. Banerjea, Esq., M.A.
Rev. W. S. Urquhart, M.A.
Dr. G. T. R. Ross, Ph.D.
Mr. Ambikacharan Mitra, M.A.
P. K. Chakrabarti, Esq., M.A.
Dr. Rasadas Khan, M.A., Ph.D.
Mr. B. C. Ghosh, M.A., M.B., B.C.

HISTORY

Dr. G. Thibaut, C.I.E., Ph.D., D.Sc.
E. F. Oaten, Esq., M.A.
J. N. Das Gupta, Esq., B.A.
Dr. J. V. Ryan, B.A., LL.D.
Mr. S. N. Datta, M.A., LL.B.
Babu Jadunath Sarkar, M.A.
" Bipinbihari Sen, M.A.
M. N. Basu, Esq., M.A.
S. Khuda Baksh, Esq., M.A.
Mr. S. R. Bhandarkar, M.A.
Mr. N. N. Gupta, M.A.
W. Owston-Smith, Esq., B.A., S.S.C.
Babu Subodhchandra Mukerjee, M.A.
" Surendranath Majumdar, M.A.
Mr. M. A. Hafeez, B.A.
Mr. E. A. Brown, M.A.

ECONOMICS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Kt., C.S.I., M.A., D.L., D.Sc., F.R.A.S., F.R.S.E., F.A.S.B.
C. Russell, Esq., M.A.
Mr. E. A. Brown, M.A.
J. C. Coyajee, Esq., B.A.
Mr. C. J. Hamilton, M.A.
Mr. M. A. Hafeez, B.A.
Mr. G. F. Shirras, M.A.
Mr. R. Lealie, M.A.
Mr. R. N. Gilchrist, M.A.
Mr. E. A. Horne, M.A.
Babu Satischandra Ray, M.A.
T. T. Williams, Esq., B.A., B.Sc.

M.A. AND M.Sc. EXAMINATIONS, 1914.

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3182 CALCUTTA UNIVERSITY.

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CHEMISTRY.

Dr. P. Brühl, D.Sc., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.
Dr. K. S. Caldwell, Ph.D.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Dr. R. B. Watson, M.A., D.Sc.
B. N. Das, Esq., M.A., D.Sc.
Dr. P. C. Mitra, M.A., Ph.D.
Mr. Jyotibhushan Bhaduri, M.A.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART I

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

Fisher's Bonapartism.
Bryce's American Commonwealth.
Lowell's Governments and Parties in Continental Europe.
Greenidge—Greek Constitutional History.
Greenidge—Roman Public Life.
Warde Fowler—The City State of the Greeks and Romans.

II.

Comparative Study of Social Institutions.

Comte's Positive Philosophy—Translated by Miss Martineau—Book VI.
Spencer's Principles of Sociology, Vol. I.
Giddings' Principles of Sociology.
Tylor's Primitive Culture.
Fraser's Psyche's Task.
Lecky's History of Rationalism in Europe, Vol. II; Lecky's History of Morals in Europe.
Mackenzie's Introduction to Social Philosophy.
Census Report for India, 1901, by Sir Herbert Risley.
C. D. Wright—Elements of Practical Sociology.

III.

International Law with reference to exitting Political and Economic Institutions.

Hall's Treatise on International Law.

Westlake—International Law (Peace and War), 2 Vols. Chapters on International Law.

Lawrence—War and Neutrality in the Far East.
Lawrence—International Problems and Hague Conference.
Scott's Cases on International Law.
Bray—British Rights at Sea under the Declaration of London.
Higgins—Hague Peace Conferences.
Oppenham—International Law.

13. Read a letter from Dr. Brajendranath Sil, M.A., Ph.D., George V Professor of Mental and Moral Science, having reference to the letter from the Joint-Secretary to the Government of India in the Department of Education, No. 1150, dated the 25th July, 1914, and stating that on receipt of the formal letter of appointment he at once communicated to the Registrar the fact that he took the appointment to be a permanent one, tenable for life *i.e.*, as long as he was able and fit to discharge the duties of his office and that in the circumstances mentioned in his present letter he will be satisfied with a ten years' tenure.

ORDERED—

That a copy of the letter from Dr. Seal be forwarded to the Government of India, in the Department of Education, with a recommendation that Dr. Seal's proposal that the appointment as George V Professor of Mental and Moral Science be of ten years' tenure be accepted.

14. Read a letter from Dr. P. C. Ray, stating that he has examined the thesis submitted by Mr. Hemendrakumar Sengupta,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Premchand Roychand Research Student for the year 1911, and recommending that his scholarship may be continued.

RESOLVED—

That the report be adopted and that the studentship awarded to Mr. Hemendrakumar Sengupta be continued.

15. Read a letter from the Director of Public Instruction, Bengal, forwarding a copy of a letter from the Inspectress of Schools, Dacca Circle, on the subject of the recognition of Mr. Khastagir's Girls High School at Chittagong, and recommending that the Institution may be recognised by the University as a High School competent to send up candidates for the Matriculation Examination and that the two girls who will appear at the ensuing Matriculation Examination may be permitted to do so as regular students of the above-named school.

ORDERED—

That the Khastagir Girls' High School at Chittagong be authorised to send up candidates to the Matriculation Examination in 1915, and 1916, on condition that no fresh admissions are made in the Matriculation Class after the 31st of December, 1915 unless on a fresh inspection in the interim the period of recognition of the School is further extended by the Syndicate; also that a copy of the letter from the Inspectress of Schools, Dacca Circle, be forwarded to the School authorities for information and compliance with the suggestions therein made.

16. Read an application for the recognition of the N. C. Institution at Kurnum in the District of Burdwan.

ORDERED—

That the application be forwarded to the Director of Public Instruction, Bengal, with a request that he will be so good as to authorise the Divisional Inspector of Schools to inspect and report on the N. C. Institution at Kurnum dealing with the several points mentioned in Sections 2 to 5 of Chapter XXI of the University Regulations; and that the Director of Public Instruction be further requested to favour the Syndicate with such remarks as he may think necessary to make with regard to the proposed recognition of the School while he forwards the Inspector's report to the University.

17. Read a memo. from the Inspector of Schools, Assam Valley Circle, forwarding a copy of a report on the Sibsagar

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 2.

THE 11TH JANUARY, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E., F.A.S.B.

BABU HERAMBACHANDRA MAITRA, M.A.

H. HEATON, ESQ.

RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.

J. N. DAS GUPTA, ESQ., B.A.

H. R. JAMES, ESQ., M.A.

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

BABU JNANCHANDRA GHOSH, M.A.

BABU PHANINDRALAL GANGULI, M.A., B.L., F.R.A.S.

J. R. BANERJEE, ESQ., M.A., B.L.

RAO HIRALMOHAN MAJUMDAR, M.A., B.L.

72. Read a letter from the Dean of the Faculty of Law nominating the Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., to act on the Syndicate during the temporary absence of the Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.

ORDERED—

To be recorded.

73. Read the Proceedings of the Board of Studies in English, dated the 23rd November, 1914.

ORDERED—

To be recorded.

74. Read the Proceedings of the Board of Studies in Greek, Latin, French, German and Armenian, dated the 24th November, 1914.

ORDERED—

To be recorded

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1915.

No. 2.

THE 23RD JANUARY, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SANTRA-VACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E.

THE HON'BLE MR. MAHENDRANATH RAY, C.I.E., M.A., B.L.

RAI KAILASCHANDRA BASU, BAHADUR, C.I.E., L.M.S.

THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.

BABU HERAMBACHANDRA MAITRA, M.A.

BABU RAMENDRASUNDAR TRIVEDI, M.A.

BABU BHUPENDRANATH BASU, M.A., B.L.

BABU ADHARCHANDRA MUKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

THE HON'BLE SURGEON GENERAL C. P. A. HARRIS, C.S.I., M.D., F.R.C.P., I.M.S.

LT.-COL. R. BIRD, C.I.E., M.V.O., M.D., M.S., F.R.C.S., I.M.S.

DR. KEDARNATH DAS, M.D.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

DR. BRAJENDRANATH SIL, M.A., PH.D.

H. R. JAMES, ESQ., M.A.

V. H. JACKSON, ESQ., M.A.

RAI BHAGABATI SAHAY, BAHADUR, M.A., B.L.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.

DR. P. BRÜHL, D.SC., F.C.S., F.G.S.

RAI RAJENDRACHANDRA SASTRI, BAHADUR, M.A.

RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A.

DR. P. C. RAY, C.I.E., D.SC., PH.D., F.C.S.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

LT.-COL. SIR LEONARD ROGERS, KT., C.I.E., M.D., F.R.C.S., F.R.C.P., I.M.S.

C. W. PEAKE, ESQ., M.A.

LT.-COL. F. P. MAYNARD, M.B., F.R.C.S., I.M.S.

REV. S. L. THOMPSON, B.A.

BABU JNANCHANDRA GHOSH, M.A.

F. C. TURNER, ESQ., M.A.

SIR RAJENDRANATH MOOKERJEE, K.C.I.E.

PROF. E. P. HARRISON, PH.D., F.R.S.E.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. Satischandra Bagchi, B.A., LL.B., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Babu Janakinath Bhattacharyya, M.A., B.L.
Babu Phanindralal Ganguli, M.A., B.L., F.R.A.S.
Lt.-Col. J. T. Calvert, M.B., M.R.C.P., I.M.S.
Rai Annadaprasad Sarkar, Bahadur, B.C.E.
Dr. E. R. Watson, M.A., D.Sc.
Lt.-Col. C. R. M. Greig, M.D., F.R.C.S., I.M.S.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Baidyanath Narayan Sinha, M.A., B.L.
E. F. Bigg, Esq., M.A.
Shams-ul-Ulama Kamaluddin Ahmad, M.A.
J. R. Barrow, Esq., M.A.
Babu Bidhubhusan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A. LL.B.
W. Owston-Smith, Esq., B.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Sudmersen, Esq., B.A.
J. N. Mitra, Esq., M.A., B.L.
Lt.-Col. B. H. Deare, M.B., I.M.S.
Babu Jamini Bhusan Ray, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. J. Watt, M.A., D.D.
Rev. Dr. C. Howells, M.A., Ph.D., B. Litt., B.D.
Dr. W. H. Young, M.A., D.Sc., F.R.S.
T. S. Sterling, Esq., M.A.
Rai Harinath Ghosh, Bahadur, M.D.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
R. Knox, Esq., M.A.
Dr. K. S. Caldwell, B.Sc., Ph.D., F.I.C., F.C.S.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.

178. Before proceeding to the business of the day, the Hon'ble the **Vice-Chancellor** made the following statement :—

"When small-pox broke out in an epidemic form in Calcutta and cases occurred in our Hostels and Messes it was represented to the Syndicate that some special measures were necessary to help the students. On the 7th of January a circular was sent round to all Schools and Colleges, as well as the Hostels and Messes, pointing out the necessity of immediate vaccination. It is believed that the appeal has been largely responded to. In some instances there were attacks in spite of and after vaccination, and we placed ourselves in communication with the Sanitary Authorities with a view of obtaining reassurances that vaccination had nothing to do with these cases. It has been assured that that is so and attacks would be comparatively mild because of the vaccination and the attacks took place because there was infection already. We also placed ourselves in communication with the authorities of the Campbell Medical Hospital with a

The University of Calcutta & Acharya P.C.Ray 1906-1944

Rev. Dr. J. Watt ... 21 votes.
Rev. Dr. G. Howells ... 13 ,,

The Hon'ble Dr. Nilratan Sarkar and Professor C. W. Peake were thereupon declared duly elected.

198. The Senate then proceeded to distribute the Fellows among the different Faculties in accordance with Section 2, Chapter III of the Regulations. Separate voting papers containing the names of persons proposed by the Syndicate for the different Faculties were supplied to the members present. No additional names were proposed by the members of the Senate for any of the Faculties. The lists were voted on, Faculty by Faculty, and the ballots taken showed that the persons nominated by the Syndicate for the different Faculties had all obtained votes from a majority of the members of the Senate present at the meeting. The Hon'ble the Vice-Chancellor thereupon declared that the Faculties for the year 1915-16 had been constituted as proposed the Syndicate and as shown below :—

***

FACULTY OF SCIENCE.

The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
V. H. Jackson, Esq., M.A.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.C.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Lt.-Col. Sir Leonard Rogers, Kt., C.I.E., M.D., F.R.C.S., I.M.S.
C. W. Peake, Esq., M.A.
Babu Jnanchandra Ghosh, M.A.
E. P. Harrison, Esq., Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. E. R. Watson, M.A., D.Sc.
S. W. Kemp, Esq., B.A.
Rev. Dr. J. Watt, M.A., D.D.
Dr. W. H. Young, M.A., Sc.D., F.R.S.
C. S. Middlemiss, Esq., B.A., F.G.S.
Dr. K. S. Caldwell, B.Sc., Ph.D., F.I.C., F.C.S.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1915.

No. 1.

THE 30TH JANUARY, 1915.

Present:

THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D., *in the Chair.*

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. P. BRÜHL, D.Sc., I.S.O., F.C.S., F.G.S.
BABU JNANCHANDRA GHOSH, M.A.
DR. W. H. YOUNG, M.A., D.Sc., F.R.S.

8F. Babu Jnanchandra Ghosh proposed that Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., be elected Dean of the Faculty for the year 1915.

Dr. Young seconded the proposal which was unanimously agreed to.

(Confirmed.)

NILRATAN SARKAR,
Chairman.

P. BRÜHL,
Registrar

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART II

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1915.

No. 2.

THE 20TH FEBRUARY, 1915.

Present:

THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D., *in the Chair.*

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
MR. V. H. JACKSON, M.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
DR. P. J. BRÜHL, D.SC., I.S.O., F.C.S., F.G.S.
C. W. PEAKE, ESQ., M.A.
BABU JNANCHANDRA GHOSH, M.A.
PROF. E. P. HARRISON, PH.D., F.R.S.E.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., SC.D., F.R.S.E.
DR. E. R. WATSON, M.A., D.SC.
REV. DR. J. WATT, M.A., D.D.
DR. W. H. YOUNG, M.A., D.SC., F.R.S.
DR. K. S. CALDWELL, B.SC., PH.D., F.I.C., F.C.S.

11F. The Faculty met to elect Added Members for the year 1915-16.

The Hon'ble Dr. Nilratan Sarkar was voted to the Chair.

The following persons were nominated for election :—

	Name.	*Proposed by —*
1.	Rai B. N. Das, Bahadur, M.A., B.Sc.	... Babu Jnanchandra Ghosh, M.A.

Qualifications as stated by the proposer.

Rai B. N. Das, Bahadur took the M.A. degree in Chemistry of the Calcutta University in the First Class in 1890 and later on went to England and took the B.Sc. degree of the London University with Honours in Chemistry. Since then he has been a Professor, first at the Patna College and now at the Dacca College. His attainments as a scholar and his success as a Professor are well-known throughout the Province. He has been an Added Member of the Faculty for some years past and, as such, has done very useful work.

2. C. C. Calder, Esq., B.Sc. ... ... Dr. P. J. Brühl, D.Sc., F.C.S., F.G.S., I.S.O.

Qualifications as stated by the proposer.

Mr. Calder is Curator of the Herbarium Royal Botanic Garden, Sibpur and University Lecturer in Botany.

3. Major R. E. Lloyd, M.D., D.Sc., I.M.S. ... S. W. Kemp, Esq., B.A.

Qualifications as stated by the proposer.

Major Lloyd's intimate association with the teaching of Biology in the Medical College is a sufficient qualification for his election as an Added Member of the Faculty of Science.

4. Babu Chandrabhushan Bhaduri, B.A., F.C.S. ... Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.

Qualifications.

Was an Added Member of the Faculty of Science for several years and Examiner in Chemistry at the M.A. and M.Sc. Examinations.

5. Dr. Syamadas Mookerjee, M.A., Ph.D. .. Dr. W. H. Young, M.A., D.Sc., F.R.S.

Qualifications.

Dr. Syamadas Mookerjee is a University Assistant Professor of Mathematics and is a distinguished mathematician. He was an Added Member of the Faculty of Arts in 1912 and 1913.

6. Dr. L. L. Fermor, D.Sc., F.G.S. ... C. S. Middlemiss, Esq., B.A., F.G.S.

Qualifications as stated by the proposer.

Dr. Fermor is well-known as a Geologist and Petrologist, who has contributed largely to the knowledge of Indian Geology, specially of the older Dharwar and Archæan rocks. He has written and published much on these subjects, the most important and elaborate of his monographic being on the Manganese Ore Deposits of India. Along with Sir Thomas Holland he wrote the last Quinquennial Review and the Mineral Productions of India, and he also takes a keen interest in all speculative questions in the domain of Geo-Physics.

7. Babu Hemchandra Dasgupta, M.A. ... Babu Ramendrasunder Trivedi, M.A.

Qualifications as stated by the proposer.

Babu Hemchandra Dasgupta, Professor of Geology, Presidency College. University Lecturer in Geology, M.A. (Class I, 1900). Examiner in Geography and Geology (I.A., B.Sc. and M.Sc. Examinations). Added Member of the Faculty of Science on two previous occasions. Fellow of the Geological Society of London. Contributor of papers in Geology to the Journal of the Asiatic Society of Bengal and to Sahitya-Parishat-Patrika.

8. D. B. Meek, Esq., M.A. ... Dr. E. R. Watson, M.A., D.Sc.

Qualifications as stated by the proposer.

Professor Meek is a Master of Arts and Bachelor of Science of Glasgow University. In the Examination for the former degree he obtained First Class Honours in Mathematics. He also obtained several University Prizes and Medals for Mathematics and Physics. He is senior Professor of Physics of the Dacca College and University Lecturer in Physics.

9. Rev. J. Mitchell, M.A. ... Rev. Dr. J. Watt, M.A., D.D.

Statement of qualifications.

M.A. (Cantab). Principal, Wesleyan Mission College, Bankura. He was an Added Member of the Faculty of Science before and his excellent work in Science teaching at Bankura is recognised.

10. Babu Panchanan Niyogi, M.A., F.C.S. ... Rai Kumudinikanta Banerjee, Bahadur, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 9.

THE 26TH FEBRUARY, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, C.I.E., M.A., B.L.
BABU HEMANTACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
B. HEATON, ESQ.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
H. R. JAMES, ESQ., M.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU HIRAMOHAN MAJUMDAR, M.A., B.L.
LT.-COL. B. H. DEARE, M.B., D.P.H., I.M.S.
C. J. HAMILTON, ESQ., M.A.

832. The Minutes of the Syndicate, dated the 19th February, 1915, were read and confirmed.

833. Read the Minutes of the Faculty of Law, dated the 18th February, 1915.

ORDERED—

To be recorded.

834. Read the Minutes of the Faculty of Medicine, dated the 9th February, 1915.

ORDERED—

That the forms of application for admission to the examinations for the degree of Doctor of Medicine, Master of Surgery and Master of Obstetrics and for the Diploma of Public Health be adopted.

The University of Calcutta & Acharya P.C.Ray 1906-1944

928. Read an application from Manmathanath Mitra who passed the Entrance Examination in 1903 and who has served as a teacher in the following schools, requesting permission to appear at the next I.A. Examination as a non-collegiate student :—

Name of School.		*Period of Service.*
Dumka Zila School	...	From 6th March to 14th May, 1907.
Birbhum Zila School	...	„ 3rd July to 1st October, 1907.
Amjore M. E. School	...	„ 2nd October to 21st November, 1907.
Birbhum Zila School	...	„ 22nd November, 1907 to 4th May, 1908. 1st July to 18th September, 1908. 15th December, 1908, to 14th January, 1910.
Dumka Zila School	...	„ 29th January to 24th May, 1910. 16th July, 1910, till now.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing I.A. Examination as a non-collegiate student.

929. Read an application from Lal Narayan Dhar who passed the F.A. Examination in 1899 and who has been serving as a Sub-Inspector of Schools since the 21st April, 1904, praying that he may be permitted to appear at the ensuing B.A. Examination as a non-collegiate student with English, Hindi, Economy and Philosophy as his subjects.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing B.A. Examination as a non-collegiate student.

930. Read an endorsement from the Principal, Presidency College, forwarding an application, supported by Dr. P. C. Ray, from a few students of the sixth-year Class of the above-named College, praying for postponement of the next M.A. and M.Sc. Examinations.

ORDERED—

That the application be refused.

931. Read a letter from Babu Harendrachandra Chakrabarti, Professor of English, Comilla Victoria College, praying that in the circumstances stated therein the District Magistrate who is the Officer-in-charge of the University Examination at the Comilla Centre, may be instructed to allow his brother Rameschandra Chakrabarti and Janeskumar Bhattacharyya to appear at the ensuing Matriculation Examination and enclosing a copy

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1915.

No. 4.

THE 6TH MARCH, 1915.

Present:

HIS EXCELLENCY THE RIGHT HON'BLE CHARLES BARON HARDINGE OF PENSHURST M.A., P.C., G.C.B., G.C.M.G., G.C.V.O., G.M.S.I., G.M.I.E., I.S.O., *Chancellor, in the Chair.*

HIS EXCELLENCY THE RIGHT HON'BLE THOMAS DAVID GIBSON, BARON CARMICHAEL OF SKIRLING, G.C.I.E., K.C.M.G., M.A., *Rector.*

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor.*

EX-OFFICIO FELLOWS.

The Hon'ble Sir Lawrence Jenkins, Kt., K.C.I.E., K.C., B.A., Chief Justice of the High Court of Judicature at Fort William in Bengal.

The Right Reverend George Alfred Lefroy, D.D., Lord Bishop of Calcutta.

The Hon'ble Mr. P. C. Lyon, C.S.I., I.C.S.

The Hon'ble Nawab Syed Shamsul Huda, M.A., B.L.

The Hon'ble Mr. N. D. Beatson Bell, C.I.E., I.C.S.

The Hon'ble Mr. W. W. Hornell, M.A.

The Hon'ble Mr. J. G. Jennings, M.A.

HONORARY FELLOWS.

The Hon'ble Maharaja Manindrachandra Nandi of Cossimbazar.

Dr. P. K. Ray, D.Sc.

Nawab Sirajul Islam, Khan Bahadur, B.L.

Raja Pyarimohan Mookerjee, C.S.I., M.A., B.L.

I. C. Bose, Esq., M.A., B.L.

Rev. Father A. Nout, S.J.

Rai Brahmamohan Mallik, Bahadur.

Nawab A. F. M. Abdar Rahman, Khan Bahadur.

Nawabzada Ashrafuddin Ahmed, Khan Bahadur.

Rai Jogendrachandra Ghosh, Bahadur, M.A., B.L.

Babu Ramcharan Mitra, M.A., B.L.

J. S. Zemin, Esq.

Babu Srischandra Chaudhuri, M.A., B.L.

Maulavi Abdul Karim, B.A.

Shams-ul-Ulama Ataur Rahman.

The University of Calcutta & Acharya P.C.Ray 1906-1944

W. H. Arden Wood, Esq., C.I.E., M.A., F.R.G.S.
Dr. Saraprasad Sarbadhikari, B.A., M.D.
Rai Jatindranath Chaudhuri, M.A., B.L.
Babu Dwarkanath Chakrabarti, M.A., B.L.
Jogen Chunder Dutt, Esq., M.A., B.L.
Babu Jyotiprasad Sarbadhikari, M.A., B.L.

ORDINARY FELLOWS.

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Dr. Rashbehary Ghosh, C.S.I., C.I.E., M.A., D.L., Ph.D.
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The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
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The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.
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Babu Ramendrasundar Trivedi, M.A.
Babu Bhupendranath Basu, M.A., B.L.
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Lalmohan Das, Esq., M.A., B.L.
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Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., F.A.S.B.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
C. W. Peake, Esq., M.A.
Rev. S. L. Thompson, B.A.
Babu Jnanchandra Ghosh, M.A.
Sir R. N. Mookerjee, K.C.I.E.
Prof. E. P. Harrison, Ph.D.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. S. C. Dagchi, B.A., LL.B., LL.D.
The Hon'ble Dr. G. H. R. Kenrick, K.C., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Saheb Dinesachandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Babu Jamakinath Bhattacharyya, M.A., B.L.
Phanindralal Gangali, Esq., M.A., B.L., F.R.A.S.
Lt.-Col. J. T. Calvert, M.B., M.R.C.P., D.P.H., I.M.S.
Rai Annadaprasad Sarkar, Bahadur, B.C.E.
G. F. Shirras, Esq., M.A.
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J. R. Banerjee, Esq., M.A., B.L.

Babu Brajmohan Majumdar, M.A., B.L.
Babu Baidyanath Narayan Sinha, M.A., B.L.
E. S. Bins, Esq., M.A.
Shams-ul-Ulama Kamaluddin Ahmad, M.A.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
I. P. Pugh, Esq., B.C.I.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Syed Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Südmersen, Esq., B.A.
R. W. F. Shaw, Esq., M.A.
J. N. Mitra, Esq., M.A.
S. W. Kemp, Esq., B.A.
Lt.-Col. B. H. Deare, M.B., M.R.C.P. I.M.S.
The Hon'ble Mr. Justice H. Holmwood, I.C.S.
The Hon'ble Mr. J. G. Cumming, C.I.E., I.C.S.
Babu Jamindhushan Ray, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
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Dr. Hiralal Haldar, M.A., Ph.D.
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Rai Harinath Ghosh, Bahadur, M.D.
T. S. Sterling, Esq., M.A.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
Dr. K. S. Caldwell, B.Sc., Ph.D., F.I.C., F.C.S.
T. H. Richardson, Esq., M.A., B.A.I.
Syed Ross Masood, Esq., B.A.
The Hon'ble Mr. H. Le Mesurier, C.S.I., C.I.E., I.C.S.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Bukah, Esq., M.A., B.C.I.

608. The Convocation was held at the Town Hall for conferring the Ordinary Degrees of the year.

The *Ex-officio* Fellows, the Honorary Fellows and the Ordinary Fellows of the University, who had previously signified their intention of attending the Convocation, assembled, in academic costume, in the TOWN HALL, CALCUTTA, at 2-30 P.M. At 2-50 P.M. they proceeded to the Entrance Hall and took their places in processional order according to the list previously supplied to them.

At 3 P.M. THE HON'BLE THE VICE-CHANCELLOR, the Members of the Syndicate and the Registrar received HIS EXCELLENCY THE CHANCELLOR, who was accompanied by HIS EXCELLENCY THE RECTOR, at the foot of the staircase and conducted him to the Entrance Hall, where he was received by the Fellows. HIS EXCELLENCY THE CHANCELLOR and HIS EXCELLENCY THE RECTOR then proceeded to the robing room where they robed.

The University of Calcutta & Acharya P.C.Ray 1906-1944

methods and therefore believed to be more suitable to India. We expect from Dr. Young a supplemental report that, it is believed, will be very useful. Dr. Ganesh Prasad's Introductory Lecture on the study of Mixed Mathematics was much appreciated. Dr. Brajendranath Seal, in his capacity as George V Professor of Philosophy, has been lecturing on Vedanta Epistemology and Logic in continuation of his course in Comparative Philosophy. His lectures, presenting as they do Hindu thought in relation to the Philosophy of to-day, are intended to serve as the basis of a new study, the Science of Comparative Philosophy. It is believed that this will lead to work that will redound to the credit of the University and will make known to the world of learning infinite treasures of Indian Philosophy hitherto not presented to it. The University has invited Babu Akshaykumar Maitra of Rajshahi, one of our foremost original workers in History, to deliver a course of lectures on an interesting period of the History of Bengal—that of the Pal dynasty; and workers in similar fields, are in view, whose services may be in requisition as soon as opportunity permits. A further interesting experiment is to be tried somewhat on the lines of extension movements elsewhere and such of our University Readers and Lecturers and Inspectors as can be arranged for, will lecture at different moffusil colleges that they happen to visit. Distinguished and capable gentlemen have agreed to participate in the scheme. It will give a start to work on lines that can be abundantly amplified and is sure to be rich in fruits. This will I hope also be

The University of Calcutta & Acharya P.C.Ray 1906-1944

a means of bringing the Colleges and the University closer together.

In regard to the Tagore Law Lectures, for the first time since the Endowment, the Chair has been left vacant for want of candidates coming up to the mark and the Faculty has been authorised by the Senate in the special circumstances to look out for a suitable professor. Necessary permanent changes in the rules to that effect have also been recommended, to meet future contingencies. The Bireswar Mitra Medal in Economics has not been awarded for want of sufficient merit on the part of those that submitted theses. Our demand in respect of the work of our research students, is being steadily raised and where a piece of research work is allowed to be substituted for a part of examination work, the standard is also high. I congratulate Drs. Anukulchandra Sarkar, Jitendranath Maitra and Naliniranjan Sengupta on attaining the requisite standard and earning admission to the coveted degrees to which I have just had privilege of admitting them.

We have not been able to arrange yet for Inter-University Exchange of Lectures that would enable us to have in our midst gentlemen from or engaged by other Indian Universities, who hold an important place in their own departments of learning. The Punjab University has shown us an admirable example in this direction, which we shall be happy to imitate whenever there is an opportunity. It has utilised the services of Dr. J. C. Bose and Dr. P. C. Ray, honoured names in the world of Science, of whom

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1915.

No. 3

THE 13TH MARCH, 1915.

Present:

DR. P. C. RAY, C.I.E., D.Sc., PH.D., F.C.S., *Dean, in the Chair.*

BABU RAMENDRASUNDAR TRIVEDI, M.A.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
DR. P. J. BRUHL, D.Sc., I.S.O., F.C.S., F.G.S.
REV. J. MITCHELL, M.A., F.R.A.S.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E
MAJOR R. E. LLOYD, M.D., Dr.S., I.M.S.
BABU CHANDRABHUSHAN BHADURI, B.A., F.C.S.
DR. L. L. FERMOR, D.Sc., F.G.S.
BABU HEMCHANDRA DASGUPTA, M.A., F.G.S.
D. B. MEEK, ESQ., M.A.

19F. The Faculty met to elect Members for the Boards of Studies numbering 10-15 and 16-19 for the year 1915-16. The number of Members which the Faculty had to elect for each of the Boards numbering 16-19, had been determined by the Syndicate as follows:—

No.	Boards.	No. of Members to be elected by the Faculty of Science.
16.	Experimental Psychology	Not more than 2.
17.	Mathematics	Do. 2.
18.	Geography	Do. 6.
19.	Teaching	Do. 3.

The following persons were nominated for appointment to the respective Boards of Studies under which their names appear:—

(10) BOARD OF STUDIES IN CHEMISTRY.

Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.

Rev. Dr. J. Watt, M.A., D.D.
D. B. Meek, Esq., M.A.

(18) BOARD OF STUDIES IN GEOGRAPHY.

(Not more than 6 to be elected.)

Babu Ramendrasundar Trivedi, M.A.
„ Jnanchandra Ghosh, M.A.
Rev. Dr. J. Watt, M.A. D.D.
Babu Hemchandra Das Gupta, M.A., F.G.S.

(19) BOARD OF STUDIES IN TEACHING

(Not more than 3 to be elected.)

Babu Jnanchandra Ghose, M.A.
Rev. Dr. J. Watt, M.,A., D.D.

20 F. The Faculty first proceeded to elect Members for the Boards of Studies numbering 10-15.

The following Members were elected by a ballot to the Board of Studies in Chemistry :—

(10) BOARD OF STUDIES IN CHEMISTRY.

Babu Ramendrasundar Trivedi, M.A.
Rai Chunilal Basu, Bahadur, M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Rev. J. Mitchell, M.A.
Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. E. R. Watson, M.A., D.Sc.
Rev. Dr. J. Watt, M.A., D.D.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.

The following Members were elected by a ballot to the Board of Studies in Mathematical and Experimental Physics :—

(11) BOARD OF STUDIES IN MATHEMATICAL AND EXPERIMENTAL PHYSICS.

Babu Ramendrasundar Trivedi, M.A.
J. H. Jackson, Esq., M.A.
S. C. Mahalanabis, Esq., B. Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
C. W. Peake, Esq., M.A.
Dr. E. P. Harrison, Ph.D., F.R.S.E.
Rev. J. Mitchell, M.A., F.R.S.E.
Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1915.

No. 4.

THE 13TH MARCH, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor in the Chair.*

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.
DR. RASHBEHARY GHOSE, C.S.I., C.I.E., M.A., D.L., PH.D.
MAHAMAHOPADHYAY HARAPRASAD SASTRI, C.I.E., M.A.
THE HON'BLE JUSTICE SIR ASHUTOSH MOOKERJEE, *Saraswati, Sastravachaspati*, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E., F.A.S.B.
THE HON'BLE MR. MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
BABU RAMENDRASUNDAR TRIVEDI, M.A.
BABU ADHARCHANDRA MUKHERJEE, M.A., B.L.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. H. STEPHEN, M.A., D.D.
DR. KEDARNATH DAS, M.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
DR. BRAJENDRANATH SIL, M.A., PH.D.
H. R. JAMES, ESQ., M.A.
RAI BHAGABATI KANAY, BAHADUR, M.A., B.L.
J. N. DAS GUPTA, ESQ., B.A.
S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.
DR. P. BRÜHL, D.Sc., F.C.S., F.G.S.
BABU LALMOHAN DAS, M.A., B.L.
DR. P. C. RAY, C.I.E., D.Sc., PH.D., F.C.S.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
C. W. PEAKE, ESQ., M.A.
F. C. TURNER, ESQ., M.A.
RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.
DR. D. N. MALLIK, B.A., Sc.D.
W. A. J. ARCHBOLD, ESQ., M.A., LL.B.
RAI SAHEB DINESCHANDRA SEN, B.A.
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J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
BABU BAIDYANATH NARAYAN SINHA, M.A., B.L.
E. E. BUS, ESQ., M.A.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART III

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1915.

No. 6.

THE 27TH MARCH, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.

SIR GOOROO DASS BANERJEE, KT., M.A., D.L., PH.D.

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SASTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E., F.A.S.B.

THE HON'BLE MR. MANMOHANATH RAY, C.I.E., M.A., B.L.

THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.

BABU HEMAMBRACHANDRA MAITRA, M.A.

BABU RAMENDRASUNDAR TRIVEDI, M.A.

BABU ADHARCHANDRA MOOKERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

DR. H. STEPHEN, M.A., D.D.

R. HEATON, ESQ.

DR. KEDARNATH DAS, M.D.

RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.

DR. BRAJENDRANATH SIL, M.A., PH.D.

H. E. JAMES, ESQ., M.A.

RAI BHAGABATI SAHAY, BAHADUR, M.A., B.L.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.Sc., F.R.S.E.

DR. P. BRÜHL, D.Sc., I.S.O., F.C.S., F.G.S.

RAI KRISHNACHANDRA BANERJEE, BAHADUR, B.A., A.M.I.C.E.

DR. P. C. RAY, C.I.E., D.Sc., PH.D., F.C.S.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.

REV. J. MITCHELL, M.A., F.R.S.E.

BABU JNANCHANDRA GHOSH, M.A.

SIR RAJENDRANATH MOOKERJEE, K.C.I.E.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.

RAI SAHEB DINESCHANDRA SEN, B.A.

RAI LALITMOHAN CHATTERJEE, BAHADUR, M.A.

BABU PHANIKUMALAL GANGULI, M.A., B.L., F.R.A.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1915.

No. 7.

THE 17TH APRIL, 1915.

Present.

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SUMIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.

MAHAMAHOPADHYAY HARAPRASAD SASTRI, C.I.E., M.A.

THE HON'BLE JUSTICE SIR ASUTOSH MOOKERJEE, SARASWATI, SANTRAVACHASPATI, KT., C.S.I., M.A., D.L., D.Sc., PH.D., F.R.A.S., F.R.S.E., F.A.S.B.

BABU HERAMBACHANDRA MAITRA, M.A.

BABU BRIPENDRANATH BASU, M.A., B.L.

DR. SURESPRASAD SARVADHIKARI, B.A., M.D.

BABU ADHARCHANDRA MUKHERJEE, M.A., B.L.

RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.

H. STEPHEN, ESQ., M.A., D.D.

RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.

DR. BRAJENDRANATH SIL, M.A., PH.D.

RAI BHAGABATI SAHAY, BAHADUR, M.A., B.L.

J. N. DAS GUPTA, ESQ., B.A.

S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.

DR. P. J. BRÜHL, D.SC., I.S.O., F.C.S., F.G.S., F.A.S.B.

DR. PRAFULLA CHANDRA RAY, C.I.E., D.SC., PH.D.

MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D., F.A.S.B

REV. J. MITCHELL, M.A., F.R.A.S.

BABU JNANCHANDRA GHOSH, M.A.

RAI KUMUDINIKANTA BANERJEE, BAHADUR, M.A.

DR. D. N. MALLIK, B.A., SC.D., F.R.S.E.

RAI SAHEB DINESCHANDRA SEN, B.A.

RAI LALITMOHAN CHATTERJEE, BAHADUR, M.A.

J. R. BANERJEA, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

E. E. BIRS, ESQ., M.A.

SHAMS-UL-ULAMA KAMALUDDIN AHMAD M.A.

BABU BIDHUSHEKHAR GOSWAMI, M.A.

W. OWSTON-SMITH, ESQ., B.A.

THE HON'BLE NAWAB SAIYID NAWAB ALI CHAUDHURI, KHAN BAHADUR.

F. W. STUDDERSEN, ESQ., B.A.

J. N. MITRA, ESQ., M.A.

BABU JAMINIBHUSHAN RAY, M.A., M.B.

REV. FATHER F. X. CROWAN, S.J.

DR. HIRALAL HALDAR, M.A., PH.D.

BABU SATISHCHANDRA RAY, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 17.

THE 24TH APRIL, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
BABU HEMAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
H. STEPHEN, Esq., M.A., D.D.
B. HEATON, Esq.
RAI BAHADUR UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, Esq., B.A.
S. C. MAHALANABIS, Esq., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, Esq., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

1623. The Minutes of the Syndicate, dated the 10th, the 15th and the 17th April, 1915, were read and confirmed.

1624. Read the Minutes of the Faculty of Medicine, dated the 12th April, 1915.

ORDERED—

To be recorded.

1625. Read a letter from the Hon'ble Justice Sir Asutosh Mookerjee, regarding the questions set in the First Pass Paper in Mathematics at the current B.A. and B.Sc. Examinations.

ORDERED—

That the letter be referred to the Board of Examiners.

1626. Read the following Report on the St. Xavier's College, Calcutta, for 1913-14 :—

Report on St. Xavier's College, Calcutta, for 1913-14.

(INSPECTED ON THE 19TH NOVEMBER, 1913.)

I. Governing Body.

The Governing Body for 1913-14 consists of—

(1) Rev. Fr. F. X. Crohan, S. J., Rector and Prefect of Studies.

The University of Calcutta & Acharya P.C.Ray 1906-1944

orders to Messrs. R. Cambray & Co., University Publishers, for such publications.

1672. Read a letter from Dr. P. C. Ray, Convener, Board of Examiners for the M.A. and M.Sc. Examinations in Chemistry, intimating that Babu Jyotibhushan Bhaduri, M.A., who resigned the examinership of the M.A. and M.Sc. Examinations in Chemistry has, on reconsideration, agreed to have his resignation withdrawn.

ORDERED—

That the letter be recorded and that the resignation tendered by Babu Jyotibhushan Bhaduri be considered as withdrawn.

1673. Read a letter from Mr. J. N. Das Gupta, Head Examiner in English at the recent Matriculation Examination, forwarding answer-papers in English submitted by two candidates (Roll Cal. 933 and Roll Cal. 934), and inviting the attention of the Syndicate to the similarity in the answers submitted by the two candidates.

ORDERED—

That the matter be referred to the Board of Moderators for report.

1674. Read an endorsement from the Principal, Wilson College, Bombay, forwarding, with his recommendation, an application from Abu Saghais Mukhdumi, who could not pass the Test Examination and so left the Patna College in January last where he had attended a full course of lectures for the I.Sc. Examination and who has arranged to have his theoretical and practical lectures in Physics and Chemistry in the Wilson College, Bombay, requesting permission to appear at the I.Sc. Examination in 1916 as a non-collegiate student.

ORDERED—

That the application be refused.

1675. Read a memo. from the Principal, Bangabasi College, forwarding, with his recommendation, an application from Narendrakrishna De, a student in the Third-year B.Sc. Class of the above-named college, having Physics, Chemistry and Botany as his subjects and who passed the I.Sc. Examination in 1914 with English, Bengali, Physics, Chemistry and Botany as his subjects, requesting permission to appear at the next I.Sc. Examination in Mathematics as a non-collegiate student.

ORDERED—

That the application be granted.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART IV

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 20.

THE 15TH MAY, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURBHATKA, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI CHUNILAL BASU, BAHADUR, M.B., F.C.S.
DR. H. STEPHEN, M.A., D.D.
RAI UPENDRANATH BRAHMACHARI, BAHADUR, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANENDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

1840. Read an endorsement from the Rector, St. Xavier's College, Calcutta, forwarding, with his very strong recommendation, an application, from Tulsicharan Goswami, who passed the Senior Cambridge Local Examination in December, 1914, with English, History of England, Geography, Latin, Sanskrit, French, Pure Mathematics (including Algebra, Geometry, Trigonometry, Analytical Geometry and Differential and Integral Calculus) and Physics and who intends to appear at the same examination in December, 1915, in Applied Mathematics, Chemistry, Physics and History of English Literature, praying that in the event of his passing the examination in December next he may be declared to have passed an Examination in Arts or Science equivalent to the Intermediate Examination of this University with a view to enable him to take his admission into the Third-year B.A. or B.Sc. Class in any college affiliated to this University in July, 1916.

RESOLVED—

That a copy of the Syndicate's resolutions on the subject of the Cambridge Local Examinations be forwarded to the

ORDERED—

That the letter be recorded and that the affiliation of the Ravenshaw College, Cuttack, in Persian to the B.A. Honours standard be notified in the Gazette.

1902. Read a memo. from the Dean of the Faculty of Science, nominating Rai Chunilal Basu, Bahadur, to act on the Syndicate during the temporary absence of Mr. S. C. Mahalanabis from Calcutta.

ORDERED—

To be recorded.

1903. Read the Minutes of the Faculty of Law, dated the 17th April and 10th May, 1915.

ORDERED

To be recorded.

1904. Read the Minutes of the Faculty of Arts, dated the 17th April, 1915.

ORDERED—

To be recorded.

1905. Read a letter from the Chairman, Hatiya Union H. E. School, applying for the permanent recognition of the school by the University.

ORDERED—

That the consideration of the matter be postponed pending the receipt of the report of the Inspector of Schools.

1906. Read an endorsement from the Principal, B. M. College, Barisal, forwarding, with his recommendation, an application from Sukumar Dasgupta, a candidate at the last I.A. Examination, who on account of sudden illness, could not appear at the examination from the second day, and whose straitened circumstances will not allow him to continue his studies in a college for another term, praying that he may be allowed to appear at the next I.A. Examination without further attendance at lectures, and enclosing a medical certificate in support of his application.

RESOLVED—

That Sukumar Dasgupta be directed to apply again after the publication of the results of the I.A. Examination and to submit a mark-sheet.

the construction of which has been recommended by the Inspectors.

1931. Read a letter from the Accountant General, Bengal, stating, with reference to this Office letter No. 10608, dated the 4th May, 1915, that personal allowance is taken into account in calculating the average emoluments for the purpose of a pension and that fractions of a year are not taken into account in determining the number of years of completed service.

RESOLVED—

That in supersession of the Syndicate order dated the 10th April, 1915, the amount of the pension of Babu Girischandra Mukerjee, the late Assistant Registrar of this University, be fixed at Rs. 190 As 11. as calculated on the basis of the University Regulations and the pronouncement of the Accountant General of Bengal.

1932. The Registrar placed before the meeting the following draft of a letter to the Secretary to the Government of India, Department of Education, regarding the general policy of the University in respect of the University College of Science :—

No.

FROM

P. BRÜHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,
Registrar, University of Calcutta.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
DEPARTMENT OF EDUCATION.

(Through His Excellency the Rector).

Senate House, the May, 1915.

SIR,

With reference to your letter No. 556, dated the 16th March, 1915, I have the honour, by direction of the Hon'ble the Vice-Chancellor and the Syndicate, to address you regarding the general policy of the University in respect of the University College of Science.

There are numerous scientific problems, especially problems connected with conditions obtaining in tropical and sub-tropical countries, which are awaiting investigation. Some of these problems are of great practical importance.

As regards Chemistry, not only is the number of problems of pure theoretical interest increasing withe very advance of this branch of science, but a large field for important and useful work lies open in the provinces of mineral, agricultural, and biological chemistry, in the latter case with reference especially to the comparatively new branch of colloidal chemistry and to the highly important problems presented by the chemistry of proteids, alkaloids and glucosides.

As regards Botany, it is high time that the study of the Lower Indigenous Cryptogams is taken up in right earnest and systematically by competent workers, and it is hoped that effective steps in this direction will be taken after the return from Europe of the Dr. Rashbehary Ghosh Professor of Botany, one of whose tasks is to study Mycology and Algology under competent Professors.

Further, there are numerous ecological, mutational, and botanico-physiological problems, which can be most advantageously worked out only in the Tropics, as is shown by the results of the useful work done in these directions in the Botanical Gardens of Peradeniya and Buitenzorg, and it is a cause for regret that so little of this class of work has been done in India in general and in Bengal in particular.

In Physics and in Applied Mathematics new avenues for research are constantly being opened out so that for years to come there will be no dearth of problems to be worked at.

At some future date provision will have to be made for research in a branch of natural science, which, in Indian Educational Institutions, has up to the present time been sadly neglected, namely, Zoology. Not only are there numerous gaps yet to be filled up as regards specifically Indian systematic Zoology, more especially as concerns Indian Invertebrates, but an exceedingly large number of problems, ecological, anatomical, and others, are waiting for workers and suitably furnished laboratories. It is really remarkble that exactly these two branches of science—Botany and Zoology—which in the Tropics and Sub-tropics supply the richest possible scope for research work, have been sadly neglected in Bengal up to the present time, and it is hoped that the University College of Science will go a long way towards removing that slur.

The scope of the University College of Science will be

(1) to provide facilities for research work in Applied Mathematics, Physics, Inorganic, Organic and Physical Chemistry—pure as well as applied—, Botany and, if ways and means can be found, in other branches of natural science;

(2) to prepare a limited number of students for the M.A. and M.Sc. Examinations in the branches of science enumerated above.

As regards research work, the University College of Science will provide facilities not only for Professors, as well as for students who are preparing thesis for the M.A. and M.Sc. Examinations, for the doctorate, and for various studentships, but also for persons, not directly connected with the college, who desire to carry out research work after or before the ordinary day's work, during vacations, or during privilege or study leave.

As regards M.A. and M.Sc. teaching, it may be pointed out that the existing colleges which are affiliated to those standards in Chemistry and Physics, have either not been able to provide accommodation for all the students seeking admission or have been unable to supply sufficient means for the post-graduate teaching in these subjects. The Presidency College (which has only B.Sc. affiliation in Botany and not I.Sc.) has not yet sought affiliation to the M.Sc. standard in Botany, and even if it does so and obtains affiliation in the subject, it is not likely to obtain sanction to employ a staff numerous enough to teach all the branches of a large and growing science equally effectively. It is here where collaboration with the University College of Science will be most fruitful of results. Arrangements can easily be made for students to work for part of their course in the Presidency College and for the remaining part in the College of Science, thus rendering it possible for the professors in either institution to specialise in certain branches of their subject, a condition which, however desirable, would be impossible to obtain, if each institution had to depend entirely on its own teaching resources. The present arrangements for teaching of Botany and Geology through University Lecturers is admittedly

defective, and it is a matter of constant complaint that students get inadequate assistance for the M.A. and M.Sc. courses, a complaint reflected in the results of the corresponding Examinations.

Even in regard to colleges that have affiliation in science subjects up to the M.A. or M.Sc. standards, the accommodation is inadequate. The Presidency College, inspite of its recent additions, is able to take only students in Chemistry and students in Physics. This is inadequate to meet the growing demand for higher teaching in science. A typical incident at the beginning of the current academical session may be mentioned in illustration. Several graduates of the Scottish Churches College, who had taken high honours at the B.Sc. Examination, had to be refused admission into the Presidency College, where preference had to be given to men who had taken either pass or low honours from that college. Great disappointment was felt and expressed, and the Syndicate was powerless in the matter. Moreover, the Presidency College makes provision for comparatively small sections of the courses prescribed. There are important alternative groups for which no provision has been or can be made.

I had a short history of what has been done up to the present time in connection with the University College of Science. Sir Taraknath Palit founded two Professorships, one of Chemistry and the other of Physics, and stipulated that, if the income of the endowed properties should exceed the amount required for the maintenance and up-keep of the two professorships, the surplus income may be applied to the payment of Scholarships or stipends to such advanced students for the Degrees of Master of Science or Doctor of Science as may receive training or carry out research under the said Professors.

The Trust Deed also stipulates that the sum of one lakh of rupees be set apart when realised out of the Trust Estate and that the net income thereof be applied in maintaining scholarships for advanced students in Science to carry on research outside India.

On the 8th August, 1913, Dr. Rashbehary Ghose placed at the disposal of the University a sum of 10 lakhs of Rupees for the purpose of founding four Professorships one each for the following subjects:

Applied Mathematics, Physics, Chemistry, and Botany with special reference to Agriculture, the duties of the Professors to be (a) to carry on original research in his special subject, (b) to guide and stimulate research by advanced students. The donor also directed that eight studentships be founded to be awarded annually to distinguished graduates who have taken the Degree of Master in the Faculty of Arts or Science, the students to carry on investigations under the guidance of their respective professors and to assist him in his work of original research, with the additional condition that they may not, as long as they hold the studentship, engage in the study of any branch of professional knowledge.

The donor further directed that any balance, which may remain after the payment of salaries and studentships, may be applied to the equipment and maintenance of the Laboratories and Museums.

The details of the terms of Sir Taraknath Palit Trust are set out in his two Trust Deeds, a printed copy of which is herewith enclosed. The terms of Dr. Rashbehary Ghose's Trust will appear from his letter, dated the 8th August, 1913, copy of which is herewith enclosed. The Senate accepted Sir Taraknath Palit's Trust at its meeting on the 22nd June, 1912, and the 30th November, 1912, and Dr. Rashbehary Ghose's Trust at its meeting dated the 16th August, 1913. The terms of such acceptance will appear from the Minutes of the Senate of those two dates, copies of which are herewith enclosed for easy reference.

In pursuance of one of the Trusts of Sir Taraknath Palit, as contained in Deed dated 17th June, 1913, Clause (c) the Senate at its meeting on the 22nd

The University of Calcutta & Acharya P.C.Ray 1906-1944

June, 1912, set apart G. P. Notes of the nominal value of three lakhs for giving effect to such Trust. The building is being erected out of the sale-proceeds of these Government securities. On account of increase in price of building materials as also necessary changes in the plans, it is apprehended that another lakh of rupees will be required for completing the buildings. A copy of the Minutes of the Senate, dated the 22nd June, 1912, is herewith enclosed for ready reference.

The following appointments to the Palit Professorships were made at a meeting of the Senate on the 30th January, 1911 (a copy of the Minutes of which meeting is enclosed) :—

Dr. Prafullachandra Ray, C.I.E., Ph.D., D.Sc., F.C.S.

Mr. C. V. Raman, M.A.

The following duties have been assigned to the Professors : -

(1) To devote himself to original research, in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(2) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post-Graduate study and research.

(3) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

The conditions on which the Professors have been appointed are as follows :—

(1) (a) The salary of the Sir Taruknath Palit Professor of Chemistry be Rs. 800 a month rising to Rs. 1,000 a month by annual increment of Rs. 50.

(b) The salary of the Sir Taraknath Palit Professor of Physics be Rs. 800 a month rising to Rs. 1,000 a month by annual increment of Rs. 50.

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Governing Body and of the Senate previously obtained, hold any other office to which any salary, emolument or honorarium is attached.

(3) The appointment of each Professor shall be permanent, and no Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos : —

(a) A Professor shall vacate his office upon completion of sixtieth year of his age, unless upon the recommendation of the Governing Body, the Senate is satisfied that his services should, in the interests of research, be still retained by the University, and, in such event, the Senate may, on the recommendation of the Governing Body, sanction his retention for such period as may be determined.

(b) A Professor may voluntarily resign his appointment at any time, upon not less than six months' notice given by him in writing to the Governing Body.

(c) A Professor, on retirement on the ground of either attainment of age or of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(d) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by the Governing Body after a full enquiry into specific charges brought against him, provided that at such enquiry the Professor concerned shall be allowed adequate opportunity to defend himself.

(e) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of

duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Governing Body, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

At the same meeting of the Senate the following Professors were appointed to the Rashbehary Ghose Professorships:

Dr. Ganes Prasad, M.A., D.Sc.

Dr. Praphullachandra Mitra, M.A., B.Sc., Ph.D.

Mr. Debendramohan Bose, M.A., B.Sc.

At their meeting on the 21st February, 1914, the Senate appointed Mr. S. P. Agharkar, M.A., to the Rashbehary Ghose Professorship of Botany.

The duties of the Professors and the conditions of their appointment are defined as follows: –

(*a*) To devote himself to original research in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(*b*) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post-Graduate study and research.

(*c*) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

Conditions of appointment.

(1) The monthly salaries of the Professors shall be as follows:—

		Rs.
Dr. Rashbehary Ghose Professor of	Applied Mathematics ...	600
" " "	of Chemistry ...	500
" " "	of Physics ...	500
" " "	of Botany ...	500

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Board of Management and of the Senate previously obtained, hold any other office to which any salary, emolument or honorarium is attached.

(3) The appointment shall be permanent in the cases of the Professor of Applied Mathematics and the Professor of Chemistry; and shall be for a term of seven years in the case of the Professor of Physics and the Professor of Botany. No Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos:

(*a*) A Professor shall vacate his office upon completion of the sixtieth year of his age, unless, upon the recommendation of the Board of Management, the Senate is satisfied that his services should, in the interest of research, be still retained by the University, and in such event, the Senate may, on the recommendation of the Board of Management, sanction his retention for such period as may be determined.

(*b*) A Professor may voluntarily resign his appointment at any time upon not less than six months' notice given by him in writing to the Board of Management.

(*c*) A Professor, on retirement on the ground of *either* attainment of age or of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(*d*) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by

the Board of Management after a full enquiry into specific charges brought against him; provided that, at such enquiry, the Professor concerned shall be allowed adequate opportunity to defend himself.

(e) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Board of Management, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

A copy of the Minutes of the Proceedings of the Senate of the day is enclosed for ready reference.

As will appear from the terms of the Dr. Rashbehary Ghose Trust, the Professor of Applied Mathematics can be paid Rs. 500 a month, under such terms, but Dr. Ganes Prasad had accepted the appointment only on condition that his salary be fixed at Rs. 600 per mensem, and this condition was accepted by the Senate at its meeting on the 30th January, 1914.

The following students have been appointed to the Palit Research Scholarships:—

Name.	*Amount.*	*Subject.*
Rasikbal Datta, M.Sc.	Rs. 100	Chemistry.
Niiratan Dhar, M.Sc.	„ 100	Chemistry.
Rajendralal De, M.Sc.	„ 75	Chemistry.

Of these men Niiratan Dhar has just been recommended for the State Scholarship and if he obtains it, another student will be appointed in his place.

The following students have been appointed to the Rashbehary Ghose Research Scholarships:—

Name.	*Amount.*	*Subject.*
Hariprasanna Banerjee, M.Sc.	Rs. 75	Applied Mathematics.
Sudhansukumar Banerjee, M.Sc.	„ 75	Ditto.
Bibhutibhushan Datta, M.Sc.	„ 75	Ditto.

The following gentlemen constitute the Governing Body of the Sir T. N. Palit Trust:

The Hon'ble Dr. Devaprasad Sarvadhikary, Sariratna, C.I.E., M.A., LL.D., *Vice-Chancellor, President, Ex-officio.*

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., &c.
The Hon'ble Mr. W. W. Hornell, M.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. S. Heaton, *Dean of the Faculty of Engineering.*

Elected by the Senate.

Babu Ramendrasundar Trivedi, M.A.
Babu Hirambachandra Maitra, M.A.
Dr. P. Brühl, D.Sc., I.S.O.
Dr. J. Watt, M.A., D.D.

Donor's nominees.

Mr. Lokendranath Palit, I.C.S.
Mr. S. P. Sinha, Bar-at-Law.
The Hon'ble Mr. Justice B. K. Mallik, I.C.S.
The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The following gentlemen constitute the Governing Body of Dr. Rashbehary Ghose Trust:—

The Hon'ble Dr. Devaprasad Sarvadhikary, Surivatna, C.I.E., M.A., LL.D., *Vice-Chancellor, Ex-officio, President.*

The Hon'ble Mr. W. W. Hornell, M.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. R. Heaton, *Dean of the Faculty of Engineering.*
Dr. Ganes Prasad, D.Sc.
Dr. P. C. Mitter, M.A., Ph.D.

Elected by the Senate.

Babu Rameadrasundar Trivedi, M.A.

Mr. J. R. Banerjea, M.A., B.L.

Dr. P. Brühl, D.Sc., I.S.O.

Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

Founder's nominees.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., &c.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.

The Hon'ble Babu Mahendranath Ray, M.A., B.L.

His Excellency the Chancellor was pleased to indicate in his Convocation speech at the Town Hall on the 6th March last, that His Excellency was not fully aware of the disposition the University proposed for utilization of the donation mentioned above or of Rs. 12,000 a year of Imperial grant which is to be expended on the up-keep of University Laboratories. In this connection it may be stated that a set of special apparatus have been purchased from Messrs. Adam Hilger of London to enable Mr. Raman to carry out important researches in acoustics; these experiments have been carried out up to the present in the Laboratory of the Indian Association for the Cultivation of Science, but will be continued in the University College of Science as soon as two of the rooms are suitably fitted up. The Research Students in Chemistry who at present are doing chemical research work in the Presidency College under the guidance of Dr. P. C. Ray will continue their work in the College of Science as soon as some of the rooms are fitted up for work in Organic and Inorganic Chemistry. Dr. Ganes Prasad and the three Research Scholars working under him are engaged in important research on Applied Mathematics and papers written by them have been communicated to the Calcutta Mathematical Society and will shortly be published. Dr. Mitter, the Rashbehary Ghose Professor of Chemistry, is at present superintending the construction of the Science College Building and the fitting up of the laboratories, and will take charge of the M.Sc. Chemistry Classes as soon as they are formed.

Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D., Teacher of Medicine at the Campbell Medical School, has obtained the Syndicate's sanction of a grant of Rs. 2,000 to carry out Biochemical researches in the University College of Science in continuation of previous researches of the subject and one of the laboratory rooms of the Science College has been placed temporarily at his disposal.

Out of the yearly allotment of Rs. 12,000 sanctioned by the Government of India for the maintenance of the University College of Science chemical apparatus to the value of Rs. 8,662 have been purchased from Messrs. Baird and Tatlock of London, and with the help of those apparatus, supplemented by apparatus, manufactured and of chemicals locally procured, it is proposed to start work as soon as several rooms on the ground-flour of the Science College Building have been fitted up for the purpose, which is fast approaching completion. Estimates have been obtained for the purpose, and in order that work may be commenced with the beginning of the next session, the Bengal

Chemical and Pharmaceutical Works have been entrusted with the provision of necessary fittings in eight rooms, and the Senate is about to be asked for a special grant of Rs. 20,000 out of its funds (in addition to the balance of the Government Grants) to meet urgent and unavoidable expenditure in this direction so that the commencement of work may not be delayed beyond July next.

This, however, will be just a mere beginning and will by no means meet anything like all the absolutely necessary requirements, but it will be helpful in providing accommodation for such M.A. and M.Sc. candidates as cannot be accommodated in the Presidency College, and in preventing incidents like those of the last year mentioned above.

To meet the deficit in the building bill and the expenditure on account of apparatus, fittings and general equipment, supplementary funds are urgently needed. A sum of Rs. for buildings and Rupees one lakh for fittings and apparatus and a grant for maintenance in addition to the present grant of Rs. 12,000 are the urgent requirements that the Hon'ble the Vice-Chancellor and the Syndicate desire to submit for the consideration of the Government.

Finally, the Hon'ble the Vice-Chancellor and the Syndicate desire to place before the Government the immediate necessity of acquiring the still vacant land to the south-west of the present site, which the Hon'ble the Vice-Chancellor pointed out to the Hon'ble Sir Harcourt Butler, when he was good enough to visit the Science College building on the 11th February, 1915. Requisite expansion will be impossible without this piece of land and later on it will be much more costly to acquire than now. The Hon'ble the Vice-Chancellor and Syndicate also desire to point out the extreme and immediate necessity of building hostels and professors' quarters to the west of the college buildings.

The residence of Sir Taraknath Palit at Baliganj, which consists of two large houses, has a large compound, a tank and a *jhil*, may be utilised for the purposes of Higher Botanical teaching, when adequate funds are forthcoming for building a suitable laboratory.

The class-rooms and residence for students and professors will be found in the existing houses with necessary additions and modifications.

In order fully to utilise the benefactions of Sir Taraknath Palit and Dr. Rashbehary Ghose, it is thus of the utmost importance that sufficient assistance should be available as early as possible.

I have the honour to be,

Sir,

Your most obedient servant,

P. BRÜHL,

Registrar.

RESOLVED—

That the consideration of the draft of the letter be postponed.

1933. The Registrar requested the Syndicate to nominate two members of the Senate, not being members of the staff, on the Governing Body of the Post-Graduate Teaching for 1915-16.

The University of Calcutta & Acharya P C.Ray 1906-1944

ORDERED—

To be deferred.

2048. Considered at the request of the Senate, the following recommendation of the Syndicate :—

"The Syndicate recommend to the Senate that Kishorimohan Sinha, a student in the Sixth-year English Class of the Presidency College, whose attendance has fallen short of the prescribed percentage by 1·7 only on account of illness and who has been recommended by his Professors, be allowed to appear at the next M.A. Examination in English as a non-collegiate student."

RESOLVED—

That the Syndicate are of opinion that the original application made by Kishorimohan Sinha be rejected.

2049. Read an endorsement from the Vice-Principal, University Law College, Calcutta, forwarding an application from Hrishikes Guhathakurtha, a student in the First-year Class of the above-named college, whose attendance at lectures in Jurisprudence and Hindu Law has fallen short of the prescribed minimum percentage by 6·1 and 1·3, respectively, on account of illness, praying that he may be allowed to appear at the next Preliminary Examination in Law as a non-collegiate student, and submitting certificates from his medical attendant, his Professors and Babu Bidhubhushan Goswami, M.A., in support of his application.

RESOLVED—

That the Syndicate recommend to the Senate that Hrishikes Guhathakurtha be permitted to appear at the next Preliminary Examination in Law as a non-collegiate student.

2050. The Registrar placed before the meeting the draft of the following letter to the Secretary to the Government of India, Department of Education, regarding the general policy of the University in respect of the University College of Science. :-

"FROM

P. BRÜHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,

Registrar, University of Calcutta,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

DEPARTMENT OF EDUCATION,

(Through His Excellency the Rector).

Senate House, *1915.*

SIR,

With reference to your letter No. 596, dated the 16th March, 1915, I have the honour, by direction of the Hon'ble the Vice-Chancellor and the

Syndicate, to address you regarding the general policy of the University in respect of the University College of Science.

The scope of the University College of Science will be—

(1) to provide facilities for research work in Applied Mathematics, Physics, Inorganic, Organic and Physical Chemistry pure as well as applied, Botany, and as soon as ways and means can be found, in Zoology and other branches of Natural Science;

(2) to prepare a limited number of students for the M.A. and M.Sc. Examinations in the branches of Science enumerated above.

As regards research, the University College of Science will provide facilities not only to Professors and regular students, but also to persons not directly connected with the college who desire to carry on research work after or before the ordinary day's work or during vacations, privilege or study leave; and the duty of the Professors will be not only to engage in research work on their own account, but to guide and supervise the work of students who are preparing theses on scientific subjects for the M.A. and M.Sc. Examinations, the Doctorate or various studentships.

It may not be superfluous to point out in this connection that there are numerous scientific problems outstanding, especially problems connected with conditions obtaining in tropical and subtropical countries, some of them of great practical importance and which may well engage the attention of workers in the college.

As regards Botany especially, any of the ecological, mutational, and plant-physiological problems can be most advantageously worked out in the Tropics, as is shown by the results of the highly useful and successful work done in these directions in the Botanical Gardens of Peradeniya and Buitenzorg and it is a cause for regret that comparatively little of this class of work has been done in India in general and in Bengal in particular. Although a large amount of work of a very high order of excellence has been done in Bengal and other parts of India in connection with the systematic botany of the Phanerogams and the Higher Cryptogams and valuable additions have been made to our knowledge of members of the class of fungi, especially of such as are noxious to crops, an immense field of work lies yet open to botanists who are ready to devote themselves to a systematic study of the Lower Indigenous Cryptogams. It is hoped that effective steps will be taken in this direction after the return from Europe of Mr. Agharkar, the Rashbehary Ghose Professor of Botany; for one of his tasks will be to found an indigenous school of cryptogamic botanists, who will not only devote themselves to filling out the gaps existing at present in Indian systematic botany, but whose work will also be of great practical value, considering the important bearing which a study of the lower cryptogams has on agricultural and industrial problems.

With regard to Chemistry, the school of young and enthusiastic chemists founded by the efforts and example of Dr. P. C. Ray will find an extended field of work in the University College of Science; for not only is the number of problems of purely theoretical interest increasing with every advance of this branch of science, but a large field for important and practically useful work lies open to workers in the provinces of specifically Indian mineral, agricultural, and biological chemistry; in the latter case, a large number of highly important problems are presented by the chemistry of proteids, and Indian alkaloids and glucosides.

The Professors appointed to the Chairs of Physics and of Applied Mathematics have done and are continuing to do valuable research work and the latter has already gathered round him a small group of young enthusiastic workers.

At some future date provision will have to be made in the University College of Science for research in a branch of natural science which up to the

The University of Calcutta & Acharya P.C.Ray 1906-1944

present has not been taken up in the Science Colleges of Bengal, except the Medical College, namely Zoology. A large amount of zoological research work has been done by the scientist of the Indian Museum and by others not directly connected with education; but numerous gaps remain to be filled up in Indian systematic zoology, more especially as concerns certain classes of Invertebrates. Moreover, a large number of problems—ecological, anatomical, and imitational—many of them specifically Indian, are waiting for workers and suitably furnished laboratories.

As regards M.A. and M.Sc. teaching, it may be pointed out that the existing colleges which are affiliated up to those standards in Chemistry and Physics, have either not been able to provide accommodation for all the students seeking admission or have been unable to supply sufficient means for Post-Graduate teaching in these subjects. The Presidency College (which has only B.Sc. affiliation in Botany and not I.Sc.) has not yet sought affiliation to the M.Sc. standard in Botany, and even if it does so and obtains affiliation in the subject, it is not likely to obtain sanction to employ a staff numerous enough to teach all the branches of a large and growing science equally effectively. It is here where collaboration with the University College of Science will be most fruitful of results. Arrangements can easily be made for students to work for part of their course in the Presidency College and for the remaining part in the College of Science, thus rendering it possible for the professors in both the institutions to specialise in certain branches of their subject, a condition which, however desirable, would be impossible to obtain, if each institution had to depend entirely on its own teaching resources. The present arrangements for teaching of Botany and Geology through University Lecturers is admittedly defective, and it is a matter of constant complaint that students get inadequate assistance for the M.A. and M.Sc. courses, a complaint reflected in the results of the corresponding Examinations.

Even in regard to the college that has affiliation in science subjects up to the M.A. or M.Sc. standard, the accommodation is, on the whole, inadequate. The Presidency College, in spite of its recent additions, has room only for a total of 31 students in Chemistry and 30 students in Physics, the number of admissions to the 5th-year Classes being restricted to 13 and 18, respectively. This is inadequate to meet the growing demand for higher teaching in science. An incident at the beginning of the current academical session may be mentioned in illustration. Several graduates of the Scottish Churches College, who had taken high honours at the B.Sc. Examination, could not get admission into the Presidency College, where preference had to be given to men who had taken either pass or low honours from that college. Great disappointment was felt and expressed, and the Syndicate was powerless in the matter. Moreover, the Presidency College makes provision for comparatively small sections of the courses prescribed. There are important alternative groups for which no provision has been or can be made.

A short history of what has been done up to the present time in connection with the University College of Science will be of interest. Sir Taraknath Palit founded two Professorships, one of Chemistry and the other of Physics, and stipulated that, if the income of the endowed properties should exceed the amount required for the maintenance and up-keep of the two professorships, the surplus income may be applied to the payment of Scholarships or stipends to such advanced students for the Degrees of Master of Science or Doctor of Science as may receive training or carry out research under the Professors.

The Trust Deed also stipulates that the sum of one lakh of rupees be set apart when realised out of the Trust Estate and that the net income be applied in maintaining scholarships for advanced students in Science to carry on research outside India.

On the 8th August, 1913, Sir Rashbehary Ghose placed at the disposal of the University a sum of 10 lakhs of rupees for the purpose of founding four Professorships one each for the following subjects:—

Applied Mathematics, Physics, Chemistry, and Botany with special reference to Agriculture, the duties of the Professors to be (a) to carry on original research in his special subject and (b) to guide and stimulate research by advanced students. The donor also directed that eight studentships be founded to be awarded annually to distinguished graduates who have taken the Degree of Master in the Faculty of Arts or Science, the students to carry on investigations under the guidance of their respective professors and to assist them in the work of original research, with the additional condition that they may not, as long as they hold the studentship, engage in the study of any branch of professional knowledge.

The donor further directed that any balance, which may remain after the payment of salaries and studentships, may be applied to the equipment and maintenance of the Laboratories and Museums.

The details of the terms of Sir Taraknath Palit Trust are set out in his two Trust Deeds, a printed copy of which is herewith enclosed. The terms of Sir Rashbehary Ghose's Trust will appear from his letter, dated the 8th August, 1913, a copy of which is herewith enclosed. The Senate accepted Sir Taraknath Palit's Trust at its meetings on the 22nd June, 1912, and the 30th November, 1912, and Sir Rashbehary Ghose's Trust at its meeting dated the 16th August, 1913. The terms of such acceptance will appear from the Minutes of the Senate of those dates, copies of which are herewith enclosed for easy reference.

In pursuance of one of the Trusts of Sir Taraknath Palit, contained in Deed dated 17th June, 1912, Clause (c) the Senate at its meeting on the 22nd June, 1912, set apart G. P. Notes of the nominal value of three lakhs for giving effect to such Trust. The building is being erected out of the sale-proceeds of these Government securities. On account of increase in price of building materials as also necessary changes in the plans, it is apprehended that another lakh of rupees will be required for completing the buildings. A copy of the Minutes of the Senate, dated the 22nd June, 1912, is herewith enclosed for ready reference.

The following appointments to the Palit Professorships were made at a meeting of the Senate on the 30th January, 1914, (a copy of the Minutes of which meeting is enclosed) :—

Dr. Praphullachandra Raya C.I.E., Ph.D., D.Sc., F.C.S.

Mr. C. V. Raman, M.A.

The following duties have been assigned to each of the Professors:

(1) To devote himself to original research, in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(2) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post-Graduate study and research.

(3) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

The condition on which the Professors have been appointed are as follows :—

(1) (a) The salary of the Sir Taraknath Palit Professor of Chemistry be Rs. 800 a month rising to Rs. 1,000 a month by annual increment of Rs 50.

(b) The salary of the Sir Taraknath Palit Professor of Physics be Rs. 800 a month rising to Rs. 1,000 a month by annual increment of Rs. 50.

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Governing Body and of the Senate previously obtained, hold any other office to which any salary, emolument or honorarium is attached.

(3) The appointment of each Professor shall be permanent, and no Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos :

(*a*) A Professor shall vacate his office upon completion of sixtieth year of his age, unless, upon the recommendation of the Governing Body, the Senate is satisfied that his services should, in the interests of research, be still retained by the University, and, in such event, the Senate may, on the recommendation of the Governing Body, sanction his retention for such period as may be determined.

(*b*) A Professor may voluntarily resign his appointment at any time, upon not less than six months' notice given by him in writing to the Governing Body.

(*c*) A Professor, on retirement on the ground of either attainment of age or of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(*d*) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by the Governing Body after a full enquiry into specific charges brought against him, provided that at such enquiry the Professor concerned shall be allowed adequate opportunity to defend himself.

(*e*) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Governing Body, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

At the same meeting of the Senate the following Professors were appointed to the Rashbehary Ghose Professorships :

Dr. Ganes Prasad, M.A., D.Sc.
Dr. Praphullachandra Mitra, M.A., B.Sc., Ph.D.
Mr. Debendramohun Bose, M.A., B.Sc.

At their meeting on the 21st February, 1914, the Senate appointed Mr. S. P. Agharkar, M.A., to the Rashbehary Ghose Professorship of Botany.

The duties of each of the Professors and the conditions of their appointment are defined as follows :

(*a*) To devote himself to original research in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(*b*) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post-Graduate study and research.

(*c*) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

Conditions of appointment.

(1) The monthly salaries of the Professors shall be as follows :—

		Rs.
Dr. Rashbehary Ghose Professor of	Applied Mathematics ..	600
" " "	of Chemistry ..	500
" " "	of Physics ..	500
" " "	of Botany .	500

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Board of Management and of the Senate previously obtained, hold any other office to which any salary, emolument or honorarium is attached.

(3) The appointment shall be permanent in the cases of the Professor of Applied Mathematics and the Professor of Chemistry; and shall be for a term of seven years in the cases of the Professor of Physics and the Professor of Botany. No Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos :—

(a) A Professor shall vacate his office upon completion of the sixtieth year of his age, unless, upon the recommendation of the Board of Management, the Senate is satisfied that his services should, in the interests of research, be still retained by the University, and in such event, the Senate may, on the recommendation of the Board of Management, sanction his retention for such period as may be determined.

(b) A Professor may voluntarily resign his appointment at any time upon not less than six months' notice given by him in writing to the Board of Management.

(c) A Professor, on retirement on the ground of *either* attainment of age or of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(d) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by the Board of Management after a full enquiry into specific charges brought against him; provided that, at such enquiry, the Professor concerned shall be allowed adequate opportunity to defend himself.

(e) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Board of Management, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

A copy of the Minutes of the Proceedings of the Senate of the day is enclosed for ready reference.

As will appear from the terms of Sir Rashbehary Ghose's Trust, the Professor of Applied Mathematics can be paid Rs. 500 a month under such terms, but Dr. Ganes Prasad had accepted the appointment only on condition that his salary be fixed at Rs. 600 per mensem, and this condition was accepted by the Senate at its meeting on the 30th January, 1914.

The following students have been appointed to the Palit Research Scholarships :—

Name.	*Amount.*	*Subject.*
Rasiklal Datta, M.Sc.	Rs. 100	Chemistry.
Niliuton Dhar, M.Sc.	,, 100	Chemistry.
Rajendralal De, M.Sc.	,, 75	Chemistry.

Of these Niliratan Dhar has just been recommended for the State Scholarship and if he obtains it, another student will be appointed in his place.

The following students have been appointed to the Rashbehary Ghose Research Scholarships :—

Name.	*Amount.*	*Subject.*
Hariprasanna Banerjee, M.Sc.	Rs. 75	Applied Mathematics.
Sudhansukumar Banerjee, M.Sc.	,, 75	Ditto.
Bibhutibhushan Datta, M.Sc.	,, 75	Ditto.

The following gentlemen constitute the Governing Body of Sir T. N. Palit's Trust :

The Hon'ble Dr. Devaprasad Sarvadhikary, *Suratna*, C.I.E., M.A., LL.D., *Vice-Chancellor, President, Ex-officio.*

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastrarachaspati*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.

The Hon'ble Mr. W. W. Hornell, M.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. B. Heaton, *Dean of the Faculty of Engineering.*

Elected by the Senate.

Babu Ramendrasundar Trivedi, M.A.
Babu Herambachandra Maitra, M.A.
Dr. P. Brühl, D.Sc., I.S.O.
Dr. J. Watt, M.A., D.D.

Donor's nominees.

Mr. Lokendranath Palit, I.C.S.
The Hon'ble Sir S. P. Sinha, Kt., Bar-at-Law.
The Hon'ble Mr. Justice B. K. Mullick, I.C.S.
The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.

The following gentlemen constitute the Governing Body of Sir Rashbehary Ghose's Trust :

The Hon'ble Dr. Devaprasad Sarvadhikary, *Suratna*, C.I.E., M.A., LL.D., *Vice-Chancellor, Ex-officio, President.*
The Hon'ble Mr. W. W. Hornell, M.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. B. Heaton, *Dean of the Faculty of Engineering.*
Dr. Ganes Prasad, D.Sc.
Dr. P. C. Mitter, M.A., Ph.D.

Elected by the Senate.

Babu Ramendrasundar Trivedi, M.A.
Mr. J. R. Banerjee, M.A., B.L.
Dr. P. Brühl, D.Sc., I.S.O.
Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

Founder's nominees.

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastrarachaspati*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.

His Excellency the Chancellor was pleased to indicate in his Convocation speech at the Town Hall on the 8th March last, that His Excellency was not fully aware of the disposition the University proposed for utilization of the donations mentioned above or of Rs. 12,000 a year of Imperial grant which is to be expended on the up-keep of University Laboratories. In this connection it may be stated that a set of special apparatus has been purchased from Messrs. Adam Hilger of London to enable Mr. Raman to carry out important researches in acoustics ; these experiments have been carried out up to the present in the Laboratory of the Indian Association for the Cultivation of Science, but will be continued in the University College of Science as soon as the rooms are suitably fitted up. The Research students in Chemistry who at present are doing chemical research work in the Presidency College under the guidance of Dr. P. C. Ray will continue their work in the College of Science as soon as some of the rooms are fitted up for work in Organic and Inorganic Chemistry. Dr. Ganes Prasad and the three Research Scholars working

under him are engaged in important research on Applied Mathematics, and papers written by them have been communicated to the Calcutta Mathematical Society and will shortly be published. Dr. Mitter, the Rashbehary Ghose Professor of Chemistry, is at present superintending the construction of the Science College Building and the fitting up of the Laboratories, and will take charge of the M.Sc. Chemistry Classes, as soon as they are formed.

Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D., Teacher of Medicine at the Campbell Medical School, has obtained the Syndicate's sanction for grant of Rs. 2,000 for instruments to carry out Bio-chemical researches in the University College of Science in continuation of previous researches on the subject and one of the laboratory rooms of the Science College has been temporarily placed at his disposal.

Out of the yearly allotment of Rs. 12,000 sanctioned by the Government of India for the maintenance of the University College of Science chemical apparatus to the value of Rs. 8,692 have been purchased from Messrs. Baird and Tatlock of London, and with the help of those apparatus, supplemented by apparatus manufactured locally and of chemicals locally procured, it is proposed to start work as soon as several rooms on the ground-floor of the Science College Building, which is fast approaching completion, have been fitted up for the purpose. Estimates have been obtained for the purpose, and in order that work may be commenced from the beginning of the next session, the Bengal Chemical and Pharmaceutical Works have been entrusted with the provision of necessary fittings in eight rooms. The Senate is about to be asked for a special grant of Rs. 20,000 out of its funds (in addition to the balance of the Government Grants) to meet urgent and unavoidable expenditure in this direction so that the commencement of work may not be delayed beyond July next.

This, however, will be a mere beginning and will by no means meet anything like the absolutely necessary requirements; but it will be helpful in providing accommodation for such M.A. and M.Sc. candidates as cannot be accommodated in the Presidency College.

To meet the deficit in the building bill and the expenditure on account of apparatus, fittings and general equipment, supplementary funds are urgently needed. A sum of Rupees one lakh for buildings and Rupees three lakhs for fittings and apparatus and a grant for maintenance in addition to the present grant of Rs. 12,000 are the urgent requirements that the Hon'ble the Vice-Chancellor and the Syndicate desire to submit for the consideration of the Government.

In view of the nature of the work which the University College of Science proposes to undertake, and the class of research scholars of proved ability who have already shown eagerness to take up investigations under its auspices, the Hon'ble the Vice-Chancellor and the Syndicate would earnestly urge the claims of the college to a subsidy from the Indian Research Fund, intended for the promotion of fruitful investigations in directions in which India offers special facilities for study. The Hon'ble the Vice-Chancellor and the Syndicate would, under the circumstances, venture to express the hope that the claims of the college may receive due and sympathetic consideration from the authorities entrusted with the management of the Fund.

Finally, the Hon'ble the Vice-Chancellor and the Syndicate desire to place before the Government the immediate necessity of acquiring the still vacant land to the south-west of the present site, which the Hon'ble the Vice-Chancellor pointed out to the Hon'ble Sir Harcourt Butler, when he was good enough to visit the Science College building on the 20th January, 1915. Requisite expansion will be impossible without this piece of land and later on it will be much more costly to acquire than now. The Hon'ble the Vice-Chancellor and Syndicate also desire to point out the extreme and immediate

necessity of building hostels and professors quarters to the west of the college buildings.

The residence of Sir Taraknath Palit at Baliganj, which consists of two large houses and has a large compound, a tank and a *jhil*, may be utilised for the purposes of Higher Botanical and Zoological teaching, when adequate funds are forthcoming for fitting up suitable laboratories.

Class-rooms and residence for students and professors will be found in the existing houses with necessary additions and modifications.

In order fully to utilise the benefactions of Sir Taraknath Palit and Sir Rashbehary Ghose, it is thus of the utmost importance that sufficient assistance should be available as early as possible.

I have the honour to be,
Sir,
Your most obedient servant,
P. BRÜHL.
Registrar.

RESOLVED—

That the draft be approved and that the letter be forwarded to the Government of India through His Excellency the Rector.

2051. Read a letter from the Offg. Private Secretary to His Excellency the Governor of Bengal, forwarding letter No. 877, dated the 15th May, 1915, from the Secretary to the Government of India, stating, in reply to this Office letter No. 6670, dated the 2nd February, 1915, that the Governor General in Council is pleased to sanction the appointment of Pandit Sakala Narayan Pandey, Kabyathirtha, Vyakaranthirtha, Vidyabhushana, as University Lecturer in Sanskrit in place of Pandit Thakur Prasad, resigned.

ORDERED—

To be recorded.

2052. Read a letter from the Accountant-General, Bengal, stating that as under notification No. 894, dated the 15th February, 1915, published in the Calcutta Gazette, dated the 17th February, 1915, Babu Bipinbihari Sen has been promoted to Class VI of the Provincial Educational Service, with effect from the 10th October, 1912, his contribution for pension and leave allowances is payable at Rs. 75 per mensem, being $\frac{1}{4}$ of his assumed pay of Rs. 300 per mensem, with effect from 2nd July, 1914, the date from which his services have been transferred to the Calcutta University, under Article 770 Civil Service Regulations and requesting that as his contribution for pension and leave allowances has been paid at Rs. 62-8-0 per mensem, from 2nd July, 1914, the balance may be paid, at an early date, at Rs. 12-8-0 per mensem, with effect from the same date.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART V

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 36.

THE 14TH AUGUST, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
H. R. JAMES, ESQ., M.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

2624. Read a letter from the Dean of the Faculty of Engineering nominating Mr. W. B. MacCabe as a member of the Syndicate during the absence of Mr. B. Heaton who will be absent from India during the long vacations of the Engineering College, Sibpur.

ORDERED—

To be recorded.

2622. Read a letter from the Tabulators for the recent I.A. and I.Sc. Examinations, regarding the cases of a few candidates deserving of consideration by the Hon'ble the Vice-Chancellor and Syndicate.

ORDERED—

To be deferred.

2623. Read an endorsement from the Principal, Presidency College, Calcutta, forwarding, with his remarks, an application from Narendranath Mitra, an unsuccessful candidate at the last I.Sc. Examination, praying that his case may be favourably reconsidered.

ORDERED—

To be deferred.

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the Syndicate recommend to the Senate that P. J. D'Sauza be permitted to appear at the M.A. Examination in 1916 in History as a non-collegiate student.

2784. Read an endorsement from Dr. P. C. Ray, forwarding an application from Nagendra Prasad, who passed the B Sc. Examination in 1914 with Second Class Honours in Chemistry and who is now reading in the Sixth-year University Chemistry Class of the Presidency College, Calcutta, praying that he may be permitted to offer the following research work in Organic Chemistry in lieu of Examination in Physical and Inorganic Chemistry at the M.Sc. Examination in 1916:—

(a) Iodination by means of Nitrogen Iodide.

(b) Iodination in the presence of Sulphuric Acid.

RESOLVED—

That the application be granted.

2785. Read an endorsement from Dr. P. C. Ray, forwarding an application from Phuldeo Sahay Varma, who passed the B.Sc. Examination in 1914 with Second Class Honours in Chemistry and who is now reading in the Sixth-year Chemistry Class of the Presidency College, Calcutta, praying that he may be permitted to offer the following research work in Organic Chemistry in lieu of Examination in Physical and Inorganic Chemistry at the M.Sc. Examination in 1916:—

(a) Studies of the indirect formation of double salts.

(b) Application of Nitrous fumes as a Reagent in Organic Chemistry.

RESOLVED—

That the application be granted.

2786. Read an application from Akshaykumar Mukherjee, an unsuccessful candidate at the B.Sc. Examinations in 1914 and 1915, who, owing to straitened circumstances, is unable to prosecute his studies in any college for another term, praying that he may be permitted to appear at the next B.Sc. Examination as a non-collegiate student after undergoing a fresh course of practical training at the Indian Association for the Cultivation of Science.

RESOLVED—

That the application be refused.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART VI

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 37.

THE 20TH AUGUST, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMATHANATH RAY, C.I.E., M.A., B.L.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH. D.
H. R. JAMES, ESQ., M.A.
S. C. MAHALANABIS, ESQ. B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH. D.
C. W. PEAKE, ESQ., M.A.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., I.M.S., D.P.H.
C. J. HAMILTON, ESQ., M.A.

2991. The Minutes of the Syndicate, dated the 10th August, 1915, were read and confirmed.

2992. Read a letter from the Tabulators for the recent I.A. and I.Sc. Examinations, regarding the cases of a few candidates deserving of consideration by the Hon'ble the Vice-Chancellor and Syndicate.

RESOLVED—

That the letter be referred to the Board of Moderators for consideration and report.

2993. Read an endorsement from the Principal, Presidency College, Calcutta, forwarding, with his remarks, an application from Narendranath Mitra, an unsuccessful candidate at the last I. Sc. Examination, praying that his case may be favourably reconsidered.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the Head Master, Faridpur Zila School, be requested to advise the applicant to admit his son into another school.

3071. Read an endorsement from the Principal, Earle Law College, Gauhati, forwarding, with his recommendation, an application from Kshirodmohan Sen, a student in the 1st-year Class of the above-named college, who, after passing the B.A. Examination in 1911, joined the University Law College, but who could not continue his study there for domestic misfortune and ill-health and who passed the M.A. Examination in 1914, praying that, as he completed his attendance at P. L. lectures during 1910-11, he may be permitted to attend lectures either in the First and Second or the Second and the Third-year Classes simultaneously.

RESOLVED—

That the application be refused.

3072. Read an application from Babu Maniudrakumar Mitra, requesting that the age-entry of his brother, Rabindrakumar Mitra, a candidate at the recent M.A. Examination, may be corrected in the University records.

RESOLVED—

That the application be refused.

3073. The Registrar requested the Syndicate to consider the question of distribution of remuneration for conducting the B.A. and B.Sc. Examinations in Practical Chemistry.

RESOLVED—

That the recommendations made by Dr. P. C. Ray with regard to the distribution of the remuneration for conducting the B.A. and B.Sc. Examinations in Practical Chemistry be accepted.

3074. Read an endorsement from the Principal, Central College, Calcutta, forwarding, with his recommendation, an application from Gaurhari Kumar, an unsuccessful candidate at the last Matriculation Examination, who could not get himself admitted to a school in time owing to the death of his parent and who was provisionally admitted to the above-named school on the 6th August, 1915, praying that his provisional admission may be confirmed to enable him to sit for the next Matriculation Examination as a regular student.

ORDERED—

That the Principal, Central College, be informed that the provisional admission of Gaurhari Kumar into the First Class of

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 38.

THE 27TH AUGUST, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, C.I.E., M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
H. R. JAMES, ESQ., M.A.
S. C. MAHALANABIS, ESQ., B.SC., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
C. W. PEAKE, ESQ., M.A.
BABU JNANCHANDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIHARIMOHAN MAJUMDAR, M.A., B.L.
C. J. HAMILTON, ESQ., M.A.

3178. The Minutes of the Syndicate, dated the 24th June and 10th August, 1915, were read and confirmed.

3179. Read a letter from Babu Jnanchandra Ghosh, regarding the interpretation of the Second Para. of Section 2, Chapter XXXII of the University Regulations.

RESOLVED—

That the consideration of the letter be postponed to the next meeting of the Syndicate.

3180. Read a letter from Dr. Ganesh Prasad, expressing his inability to examine the theses submitted by two candidates for the Premchand Roychand Research Studentship.

RESOLVED—

That the consideration of the letter be postponed to the next meeting of the Syndicate.

3181. Read letters from Maulavi Mohammad Irfan and Maulavi Abdul Aziz, stating that candidates who take up either

The University of Calcutta & Acharya P.C.Ray 1906-1944

fully carrying out the conditions laid down by the Inspectors of Schools within a certain period, say two years, the non-compliance with which leading to a withdrawal of the privilege.

RESOLVED—

That a copy of the letter be forwarded to the Divisional Inspector of Schools with a request to furnish the Syndicate with a report on the school.

3229. Read an endorsement from the Principal, Dacca College, forwarding, with his recommendation, an application from Prabalchandra Banerjee, an unsuccessful candidate at the last B.A. Examination, who failed in English by two marks and in Mathematics by 1 mark only, and who obtained in Economics Honours paper 305 out of 600, praying that his papers in English and Mathematics may be re-examined and submitting marks sheet in support of his application.

RESOLVED—

That the application be refused.

3230. Read a letter from the Under-Secretary to the Government of Bengal, General Department, forwarding a notification No. 3390, dated the 17th August, 1915, notifying that the Governor in Council is pleased to appoint the following members to constitute the Governing Bodies of the undermentioned Government Colleges for the academic year 1915-16 :—

(1) *Presidency College.*

(1) The Principal of the Presidency College, Calcutta, *President* ... } *Ex-officio.*
(2) The Member for the Calcutta University in the Bengal Legislative Council ... ... } *Ex-officio.*
(3) The Assistant Director of Public Instruction ... ... } *Ex-officio.*
(4) Mr. C. W. Peake, M.A., Professor, *Vice-President and Secretary.*
(5) Mr. T. S. Sterling, M.A., Professor.
(6) Dr. Prafullachandra Ray, D.Sc., C.I.E., Professor.

(2) *Sanskrit College.*

(1) The President, Sanskrit Examination Board, *President* ... ... } *Ex-officio.*
(2) The Principal, Sanskrit College, *Vice-President and Secretary* ... ... } *Ex-officio.*
(3) Mr. W. C. Wordsworth, M.A.
(4) Babu Muralidhar Banerjee, M.A., Professor.
(5) Mahamahopadhyay Pramathanath Tarkabhushana, Professor.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Chemistry Section.

The Chemical laboratories consist at present of the following rooms :—

1.	Lecture Hall (Also used for I.Sc. Physics lectures)	30′ × 25′.
2.	Preparation Room	20′ × 15′.
3.	Balance Room	22′ × 16′-6″.
4.	B.Sc. Lecture Room	22′ × 15′.
5.	B.Sc. Practical Class	30′ × 22′.
6.	I.Sc. Practical Class	30′ × 21′.
7.	Combustion Room	20′ × 20′.

The staff consists of Babu Bidhubhushan Dutta, M.A., Professor, Babu Haridas Mukherjee, M.A., Demonstrator and Babu Bankubihari Pandit, M.A., Assistant.

The number of students on the day of inspection was as follows :—

I.A. & I.Sc.	...	1st-year ...	39 I.A. 33 I.Sc.
		2nd-year ...	50 I.A. 34 I.Sc.
B.A. & B.Sc.	...	3rd-year ...	2 B.A. 10 B.Sc.
		4th-year ...	14 B.Sc.

The fixed annual grant for each laboratory is ₹ 80 per annum. There is a sufficient stock of apparatus and chemicals, and the supply of gas and water is ample.

I consider the accommodation and equipment quite sufficient for 15 B.A. and B.Sc. students in each of the Physical and Chemical Laboratories and I recommend that permission may be granted to the College to admit this number to the Third and Fourth-year Physics and Chemistry Classes from this session.

I have the the honour to be,

Sir,

Your most obedient servant,

P. C. MITTRA."

RESOLVED—

That the report be adopted and that the Principal, Hughli College, be informed that he is permitted to admit 15 students into the Third as well as the Fourth-year B.A. and B.Sc. Classes in Chemistry and Physics.

3286. Considered the question of delivery of certain University lectures in the next cold weather.

RESOLVED—

That Sir Rabindranath Tagore, Kt., D.Litt., Dr. J. C. Bose, C.S.I., M.A., D.Sc., Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S. and Mahamahopadhyay Hariprasad Sastri, C.I.E., M.A., be invited to deliver courses of lectures on some subject to be chosen by themselves during the session 1915-16.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 41.

The 10th September, 1915.

(IN CIRCULATION)

3456. Read a letter from Mr. J. C. Banerjee, Contractor, Science College Building, forwarding a Bill for Rs. 3,09,870, supported by a certificate from the Engineer-in-Charge, and requesting that, as he will have to deposit Rs. 30,000 as earnest money for certain works, G. P. Notes of the nominal value of Rs. 29,000 may be endorsed in his favour in payment of Rs. 26,100 as per following account :—

Amount of the Bill presented ...	Rs.	3,09,870	
Deduct 10 per cent. as per condition of contract	„	30,987	
	„	2,78,883	
Deduct previous payments ...	Rs.	2,52,681	
Balance due ...	„	26,202	

Mr. Banerji has offered to accept G. P. Notes at 10 per cent. discount.

RESOLVED—

That having regard to the fact that Mr. Banerji has offered to accept G. P. Notes at a rate higher than the Bank rate, his offer be accepted.

RESOLVED ALSO—

That the Registrar be authorised to withdraw G. P. Notes for Rs. 29,000 out of the Science College Building Fund and endorse them in favour of Mr. J. C. Banerjee.

(Confirmed.)

DEVAPRASAD SARVADHIKARY P. BRÜHL,
Registrar.

3462. Read the following Report of the Board of Examiners for the recent M.A. and M.Sc. Examinations, dated the 14th September, 1915:—

"FROM

THE BOARD OF EXAMINERS FOR THE M.A. EXAMINATION, 1915.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Calcutta, the 24th September, 1915.

SIR,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the M.A. Examination in Sanskrit, Group B.

Two candidates were registered for the above examination, both of whom were present. One of them has passed in the first class, the other in the second class.

The number of candidates registered for the Examination in Chemistry was 2, of whom 1 passed the examination in second class and 1 was absent.

We recommend that Phanibhushan Chattopadhyay who was placed in the First Class be declared eligible for a Government Scholarship.

We have etc., etc.,

ASUTOSH MOOKERJEE, *Chairman.*
KALIPRASANNA BHATTACHARYYA.
BAHUVALLABHA SASTRI.
LAKSHMAN SHASTRI.
SAKALNARAYAN SHARMA."

"FROM

THE BOARD OF EXAMINERS FOR THE M.Sc. EXAMINATION, 1915.

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Calcutta, the 24th September, 1915.

SIR,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the M.Sc. Examination in Chemistry.

The number of candidates registered for the above examination was 26, of whom 15 passed, 9 failed and 2 were absent. Of the successful candidates 5 were placed in the First Class, 8 in the Second and 2 in the Third.

The examination has been conducted in accordance with the rules laid down for guidance in our letters of appointment.

University of Calcutta.

MINUTES

FOR THE YEAR

1915

PART VII

Calcutta:
PRINTED AT THE CALCUTTA UNIVERSITY PRESS.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1915.

No. 48.

THE 3RD DECEMBER, 1915.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MANMOHANATH RAY, C.I.E., M.A., B.L.
BABU RAMENDRACHANDRA MAITRA, M.A.
THE HON'BLE DR. NILRATAN SARKAR, M.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
H. R. JAMES, ESQ., M.A.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSAN, M.A., PH.D.
C. W. PEAKE, ESQ., M.A.
BABU JNANENDRA GHOSH, M.A.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
C. J. HAMILTON, ESQ., M.A.

4368. The Minutes of the Syndicate, dated the 27th August, 1915, were read and confirmed.

4369. Read the following Proceedings of the Governing Body for Post-Graduate Teaching :—

"Considered a letter from Mr. H. R. James, M.A., with reference to Babu Panchanandas Mukerjee, M.A.

RESOLVED—

That the Governing Body, Post-Graduate Teaching, recommend to the Syndicate that Babu Panchanandas Mukerjee be permitted to resign his appointment of Assistant to the Minto Professor of Economics with effect from the 1st of January, 1916.

Recommended also that Babu Durgagati Chattoraj be appointed for a period of two years, Assistant to the Minto Professor of Economics on a salary of Rs. 200 per month with effect from the 1st of January, 1916.

Recommended further that Babu Jogeschandra Sinha be appointed for a period of two years, Additional Assistant to the

college may be extended in Mathematics to the B.A. Honours standard and in Sanskrit to the B.A. Pass standard.

RESOLVED—

That the Hon'ble Mr. Mahendranath Ray and Dr. Satischandra Vidyabhushan be requested to inspect the Diocesan College and favour the Syndicate with a report on the claims of the college for affiliation to the B.A. Honours standard in Mathematics and the B.A. Pass standard in Sanskrit.

4383. Read a letter from Mr. C. Raman with reference to the examination of one of the theses presented by candidates for the Premchand Roychand Scholarship.

RESOLVED—

That Dr. Mallik be associated with Mr. Raman in the Examination of the thesis and favour the Syndicate with a report.

4384. Read a letter from Mr. Bimanbihari De, Premchand Roychand Scholar for the year 1913, making a request for an extension of time for submitting the detailed statement of the research in which he has been engaged during the year.

RESOLVED—

That under the circumstances mentioned in the application, the extension asked for, be granted.

4385. The Registrar reported that His Highness the Thakur Saheb of Gondal regretted that circumstances would not allow him to undertake the examination of the essay on the History of Ancient Indian Medicine with special reference to the Vedic age.

RESOLVED—

That Dr. B. N. Seal, Dr. P. C. Ray and Babu Jaminibhushan Ray be requested to examine the Essay and to favour the Syndicate with a report on the same.

4386. Read a letter from Babu Lalmohan Ghoshal, submitting the work and results of his investigation on Indian Diets for the Darbhanga Scholarship of 1911 awarded to him in October, 1911.

ORDERED—

That the record of the work done by Babu Lalmohan Ghoshal be referred to the Faculty of Medicine.

4387. On the results of the M.A. and M.Sc. Examinations held in July, 1915, the following medals were awarded:—

(1). Cobden Medal—Jogischandra Sinha, Presidency College.

University of Calcutta

MINUTES

FOR THE YEAR

1916

PART VI

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1916.

NO. 42.

THE 30TH OCTOBER, 1916.

(In Circulation)

2852. The Registrar reported that His Excellency the Chancellor had been pleased to nominate the following gentlemen to be Ordinary Fellows of this University:—

Mr. Girischandra Bose, M.A.

Dr. Praphullachandra Ray, C.I.E., Ph.D., D.Sc., F.C.S.

Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

Mr. C. W. Peake, M.A.

Mr. J. R. Barrow, M.A.

Babu Bidhubhushan Goswami, M.A.

The Hon'ble Mr. Abdul Majid, B.A., LL.B., Bar-at-Law.

Mr. W. Owston-Smith, M.A.

Mr. J. W. Langford James, M.A., Bar-at-Law.

Rev. W. S. Urquhart, M.A., D. Phil.

RESOLVED—

That the Fellows be distributed among the Faculties and the Boards of Studies as follows:—

Mr. Girischandra Bose, M.A.—Faculties of Arts and Science. Boards of Studies in Chemistry and Botany.

Dr. P. C. Ray, C.I.E.—Faculties of Arts and Science. Boards of Studies in Chemistry and Zoology.

Mahamahopadhyay Dr. S. C. Vidyabhushan, M.A., Ph.D.—Faculty of Arts. Boards of Studies in Sanskrit, Sanskritic Languages, History, Philosophy and Teaching.

Mr. C. W. Peake, M.A.—Faculties of Arts and Science. Boards of Studies in Physics, Geology and Mineralogy and Mathematics.

Mr. J. R. Barrow, M.A.—Faculty of Arts. Board of Studies in English.

Babu Bidhubhushan Goswami, M.A.—Faculty of Arts. Boards of Studies in Sanskrit and Sanskritic Languages.

The Hon'ble Mr. Abdul Majid, B.A., LL.B.—Faculty of Law.

Mr. W. Owston-Smith, M.A.—Faculty of Arts. Boards of Studies in History and Economics and Political Philosophy.

Mr. J. W. Langford James, M.A.—Faculty of Law. Board of Studies in Law.

Rev. W. S. Urquhart, M.A., D. Phil.—Faculty of Arts. Board of Studies in Mental and Moral Philosophy.

(Confirmed.)

DEVAPRASAD SARVADHIKARY,
Vice-Chancellor.

P. BRUHL,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1916.

NO. 43.

THE 17TH NOVEMBER, 1916.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.

BABU HERAMBACHANDRA MAITRA, M.A.

H. HEATON, ESQ.

RAI BAHADUR DR UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.

J. N. DAS GUPTA, ESQ., B.A. (OXON.).

S. C. MAHALANOBIS, ESQ., B.SC., F.R.S.E.

BABU JNANCHANDRA GHOSH, M.A.

LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.

J. R. BANERJEA, ESQ., M.A., B.L.

BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

C. J. HAMILTON, ESQ., M.A.

W. C. WORDSWORTH, ESQ., M.A.

2853. The Minutes of the Syndicate, dated the 1st, 9th, 12th, 21st, 25th September and the 30th October, 1916, were confirmed.

2854. Read a letter from the Private Secretary to His Excellency the Governor of Bengal, forwarding Notification No. 949, dated the 19th October, 1916, from the Government of India, Department of Education, in which it is stated that the Governor General in Council is pleased to cancel the appointment of Mr. R. Knox, M.A., as a Fellow of this University.

ORDERED—

To be recorded.

2855. Read a letter from the Private Secretary to His Excellency the Governor of Bengal, forwarding letter No. 903, dated the 2nd October, 1916, from the Government of India, Department of Education, on the subject of the election of

The University of Calcutta & Acharya P.C.Ray 1906-1944

normal financial conditions are restored, and that until then the existing staff should manage as well as they can.

RESOLVED—

That the letter be recorded and the Director of Public Instruction, Bengal, be invited to take steps for strengthening staff as soon as financial conditions render the measure possible.

2886. Read a letter from the Director of Public Instruction, Bengal, forwarding a set of rules for the conduct of business of the Managing Committee of the Panditsar H. E. School, from the Inspector of Schools, Dacca Division, who makes the following criticisms while submitting the rules :—

(*a*) The committee should consist of 7 to 10 members instead of 10 to 20 as proposed in rule A(2).

(*b*) There should always be at least one Mahomedan member.

(*c*) 5 should form a quorum instead of 7 as stated in rule A (6).

(*d*) Absence of six months should lead to the removal of a member.

(*e*) Nothing has been stated about filling up vacancies or the election of members ; it should be specially stated if members are to be elected by co-option.

RESOLVED—

That the authorities of the Panditsar H. E. School be asked to express their views regarding the criticisms made by the Inspector of Schools.

2887. Read an endorsement from Dr. P. C. Ray, forwarding an application from Praphullachandra Guha, a student in the Sixth-year Chemistry Class of the University College of Science, who passed the B.Sc. Examination with Second Class Honours in Chemistry, requesting permission to offer a piece of Research work on "Tautomeric changes in Organic Thio-Compounds" at the M.Sc. Examination in 1917 in lieu of examinations in Physical and Inorganic Chemistry.

RESOLVED—

That Praphullachandra Guha be permitted to offer a piece of research work in place of examination in Physical and Inorganic Chemistry.

2888. Read an endorsement from the Principal, Patna Law College, forwarding, for favourable consideration, an application from Surajdeo Prasad who, after passing the B.A. Examination in 1914, joined the First-year class of the aforesaid college, and who, owing to protracted illness, discontinued his study from

3006. The Registrar placed before the Syndicate the following draft letters to the Government of India on Post-Graduate Studies:

No.

FROM

P. BRUHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,

Registrar, University of Calcutta,

To

THE SECRETARY, GOVERNMENT OF INDIA,

Department of Education.

(THROUGH HIS EXCELLENCY THE RECTOR.)

Senate House, the *1916.*

SIR,

I have the honour, as directed by the Hon'ble the Vice-Chancellor and the Syndicate, to invite your attention to your letter No. 1003, dated the 19th June, 1915, and your letter No. 1634, dated the 14th October, 1915.

In my letter No. 288, dated the 9th July, 1915, I had the honour to inform you that your letter No. 1093, dated the 19th June, 1915, had been referred to the Governing Body of the Sir Tarakanath Palit Endowment and the Board of Management of the Sir Rashbehary Ghose Endowment Trust and the Governing Bodies for the Post-Graduate Teaching of the University. The reports of these various Governing Bodies have not yet been completed, as certain details have yet to be worked out, and it has, therefore, not been possible to send a full reply to your letters, dated the 19th of June, 1915, and the 14th of October, 1915; but the Hon'ble the Vice-Chancellor and the Syndicate feel that such reply as is possible with the materials now at their disposal ought not to be delayed any longer.

At the suggestion of the Governing Body of the Sir Tarakanath Palit Trust and the Board of Management of the Sir Rashbehary Ghose Trust, and of the Syndicate, the Hon'ble the Vice-Chancellor paid a visit to Simla and had interviews with the Hon'ble Member in charge of the Department.

The Hon'ble the Vice-Chancellor has informed the Syndicate, and the Syndicate is glad to learn, that there was a free and full exchange of views regarding University Post-Graduate studies, and that in the course of the discussion the Hon'ble the Vice-Chancellor was able to elucidate the doubtful points that arose.

Chapter XI, Section 1, of the University Regulations contemplates and requires that the University should undertake teaching work, presumably in addition to what is done in the different colleges affiliated to it and has been done ever since the establishment of the University. Such duty is imperative as follows from the terms used, namely:—The University *shall* provide for Post-Graduate Teaching study and research in the Faculties of Arts and Science.

In pursuance of the policy and requirements of the Regulations the University has maintained for several years classes in the following subjects for the M.A. and M.Sc. Examinations:—

1. English; 2. Sanskrit; 3. Pali; 4. Arabic; 5. Persian; 6. Comparative Philology; 7. Philosophy; 8. Economics; 9. History; 10. Pure Mathematics; 11. Botany; 12. Geology.

These classes now constitute the Post-graduate Arts Classes of the University.

There is no provision in any affiliated College for instruction up to the M.A. standard in several of these subjects, namely, Sanskrit, Pali, Arabic, Persian, Comparative Philology and Pure Mathematics. When the University Classes were started the Presidency College had affiliation in English, Economics, and History. Since then the Presidency College has been granted affiliation in part of the course in Philosophy and in Physiology and Botany. The Scottish Churches College has affiliation in a part of the Philosophy course and in Mixed Mathematics (though it has no classes in the latter subject). Latterly the Dacca College and the Cotton College in Gauhati have been affiliated in English. Some M.A. work is being done in Physics and Chemistry at Dacca and in Patna through University Lecturers appointed for the purpose, but no complete affiliation in these subjects has been applied for by the colleges concerned, nor is the full course attempted or purported to be covered by them. There is a number limit in some of the colleges in subjects in which they have affiliation, which makes it impossible for them adequately to meet the demands of the situation.

The University Classes in some of the subjects are very largely attended, and this testifies to the steadily increasing and not merely temporary demand for instruction up to the M.A. standard. The M.A. course extends over two years, and the number of students in the different subjects taught in the 5th and the 6th-year Classes of the University Classes taken together is at present 1190. The scheme, in each branch, consists of a University Professor, wherever possible, with a number of Assistant Professors, Lecturers and Assistants. The Assistant Professors and Assistants are whole-time officers, appointed for terms varying from three to seven years. The Lecturers are drawn from the local Colleges and are more or less temporary; their appointments are usually from year to year. This is in accordance with the views laid down in para. 9 of the Proceedings of the Government of India in the Home Department under date Simla, the 11th of August, 1906. In fact, as has been pointed out in a previous letter, the Post-Graduate Classes were started with the assistance of Professors of the different Colleges in Calcutta, and it was only when by actual working it was found that the growing work could not be entirely coped with by part-time Professors, that the engagement of whole-time Assistant Professors became necessary. These whole-time Assistant Professors were also largely recruited from amongst the Professors of our local Colleges. Towards this growing work the assistance of the Government was sought and secured. The Government of India contributes the salaries of the Minto Professor of Economics, the Hardinge Professor of Mathematics and the George the Fifth Professor of Philosophy, aggregating Rs. 37,000 a year. The University pays, out of its own funds, the Carmichael Professor of History (which Professorship had not been filled up since the death of Dr. Thibaut but applications for which have just been called for) and the two University Professors of English; their annual aggregate salary is Rs. 30,000. The University has also paid annually, out of its own funds, Rs 7,200 for the Chair of Comparative Philology; that chair is now in abeyance, as the Professor, who is a German subject, has been interned. The Government of India has also, from year to year, contributed Rs. 15,000 for Post-Graduate Teaching, but latterly difficulties have been raised as to the renewal of the grant from year to year. It is obvious that the teaching of subjects like Sanskrit, Arabic, Persian and Pali cannot possibly be made self-supporting, and if the Government, for any reason, should not see its way to renew the grant any year, all these subjects will have to be abandoned. The Hon'ble the Vice-Chancellor has several times referred in Senate meetings and in meetings of the Local Legislative Council to the need and desirability of having the Sanskrit College affiliated in Sanskrit up to the M.A. standard. This can be easily done by appointing a Professor of Philology; but no steps in this direction have been yet taken; the University is thus obliged to keep

275

The University of Calcutta & Acharya P.C.Ray 1906-1944

up the Sanskrit classes, as otherwise Sanskrit studies would seriously suffer. In the same way, but for the University Classes in Persian, Arabic and Pali, systematic Post-Graduate studies in these subjects would be impossible.

The extent of the contributions by the Government, by the University, and by the students, towards the Post-Graduate Classes will appear from the following table taken from the Budget for the current year:

		Rs.
1.	Government of India's contribution for three Chairs (Economics, Mathematics and Philosophy) ...	37,000
2.	Government of India's additional grant ...	15,000
3.	Fees from students	84,000
4.	University's contribution for three Chairs (History and English)	21,000
5.	Additional grant by the University	40,000
	TOTAL ...	1,97,000

These figures are very instructive. Out of nearly two lakhs required for Post-Graduate Teaching, fully 42 per cent. is paid by the students themselves, more than 30 per cent. is paid by the University out of its current funds, that is, from the surplus of examination fees paid by candidates. This does not take into account the contributions of the University from its Fee Fund to the Science classes which are being dealt with in a separate letter of date. The remaining 28 per cent. are paid by the Government of India. Of these 28 per cent. nearly 20 per cent. go to the three Chairs, one named after His Majesty the King Emperor and two named after two Viceroys. The remaining 8 per cent. represent the sum of Rs. 15,000, a grant which have to be renewed annually, and the corresponding and consequent investigation of reasons and desirability, that unsettles the year's work.

The work which the University now accomplishes is in a very large measure not done anywhere else within the jurisdiction of the University. The only Colleges which have affiliation in some of the subjects have very limited accommodation, hardly sufficient to meet the demands of their own graduates who wish to proceed to the M.A. degree. A case illustrating this occurred year before last. The Presidency College, in spite of the request of the Syndicate, was unable to admit deserving students from the Scottish Churches College and the Dacca College some of whom had taken high honours, to its M.Sc. Class in Chemistry, because Presidency College students who had taken a Pass Degree, had to be accommodated in the College. At a meeting of the Senate held on the 8th of August, 1914, Dr. Watt, Principal of the Scottish Churches College, observed as follows: "In Physics, for example, in which the Presidency College was the only college affiliated to the M.Sc. standard, students who had passed their B.Sc. with Honours had been asking in vain to obtain opportunities for continuing their studies. The Presidency College had refused to take such students, whether for want of accommodation or on account of insufficiency of the staff, the speaker. (Dr. Watt) could not say."

A comparison of the staff maintained by the University with the staff employed in these Colleges will demonstrate the efficiency of the staff that we maintain. It would be ungracious to compare the qualifications of the members of the respective staffs. Investigation will show that the University staff is generally superior to the staff maintained in the Colleges, both qualitatively and quantitatively. If we give up or reduce the University Classes, there is not the remotest chance of the work being undertaken by any other agency, and the result will be a large increase in the number of non-collegiate M.A.'s who will appear at the Examination three years after graduation and will have had no instruction whatever. The large majority of the colleges can with difficulty bear the strain of imparting instruction up to the B.A. Honours standard; they have neither the men nor the appliances and accommodation necessary for the organisation of M.A. classes. The Scottish

Churches College, which had affiliation in M.A. Mathematics, discontinued the classes upon the death of the distinguished Professor, Babu Gauriśankar Dey. Recently the College proposed to resume the M.A. Mathematics classes on the strength of the four Professors who are engaged in under-graduate work, to which the Syndicate could not assent. The College in question was unable to offer any additional arrangement and the classes have not been resumed. Its M.A. English classes were given up some years ago on the death of Prof. Tomory and have never been reopened.

In order to ascertain how far the Colleges could undertake additional M.A. work, the Hon'ble the Vice-Chancellor and the Syndicate invited the Colleges to indicate what share they could take in the work and also to state their resources.

Copies of the circular sent to the Colleges in November last are herewith enclosed for information. No reply has yet been received from any of the colleges, nor has any application for affiliation in M.A. subjects been received by the Syndicate.

Some idea of the volume of work that has to be faced in this connection will appear from the statements that the Hon'ble the Vice-Chancellor and the Syndicate have had prepared for the purpose.

The first statement, to which the Hon'ble the Vice-Chancellor and the Syndicate would draw your attention, is Statement "A" giving the names of the Colleges that are affiliated in M.A. or M.Sc. From the last column of the statement, it will appear that the Presidency College has fixed a number limit of students. The Presidency College and the other colleges mentioned in the statement get all the students that they want and can accommodate, and the Syndicate has never had any complaints that there is a paucity of students in these colleges because of the establishment and maintenance of the University Post-Graduate Classes. Owing to facilities in obtaining scholarships, some of the best students go there, though the scale of college fees is higher. Almost all their classes are full.

The next statement, to which the Hon'ble the Vice-Chancellor and the Syndicate would draw your attention, is marked "B" and gives the number of students that have passed the B.A., B.Sc., M.A. and M.Sc. Examinations from 1907 to 1916. The statement also gives the number of students that have passed the M.A. and the M.Sc. Examinations. It will appear from the statement that the existing affiliated Colleges could not possibly accommodate those that after passing their B.A. or B.Sc. desired M.A. and M.Sc. teaching; no additional arrangements for them have been made for their accommodation in the affiliated colleges.

The third statement is "C," showing the strength of the Post-Graduate Arts Classes of the University this year, in the different subjects, which will also show that the affiliated colleges, which as stated above have already their full strength, cannot cope with the demands of the situation and that the University Classes cannot therefore be done away with.

The University has arranged to a certain extent for exchange of lectures on certain subjects, as will appear from statement "D" annexed hereto. The exchange system is not yet as satisfactory as it might be, but efforts are being made for improvements in this direction.

On his return from Simla, the Hon'ble the Vice-Chancellor addressed Principal Wordsworth of the Presidency College on this subject and it is hoped that some improvement may be possible.

The following representatives of Calcutta Colleges are members of the Governing Body of the Post-Graduate Arts Classes:

Principal Heramchachandra Maitra, City College.

Professor J. N. Das Gupta, Presidency College.

Vice-Principal J. R. Banerjea of the Metropolitan Institution has also been sometimes a member of the Governing Body,

On the Governing Body of the Sir Taraknath Palit Trust and the Board of Management of the Sir Rashbehary Ghose Trust are the following Members of the different colleges: –

Babu Ramendrasundar Trivedi, M.A., Ripon College.
Babu Haranchandra Maitra, M.A., City College.
Rev. Dr. J. Watt, M.A., D.D., Scottish Churches College.
Mr. S. C. Mahalanobis, B.Sc., Presidency College.
Mr. J. R. Banerjea, M.A., B.L., Metropolitan Institution.

On the Syndicate, consisting of 17 members, there are 12 members of colleges representing the different Faculties and on the Senate, consisting of 97 members, there are 49 members of colleges. Arrangements for the Post-Graduate Classes are all subject to control of the Syndicate and the Senate. It will thus appear that the University tries to obtain the views and opinions of the different colleges as far as possible and to work in harmony with them.

To come to the details mentioned in your letter No. 1093, dated the 19th June. The facts set forth above will prove that the assumption that the University system of Post-Graduate teaching has been developed without due co-operation with affiliated colleges is not well founded. On the other hand, it is such co-operation that made the work possible in the beginning, and it is with such co-operation that the work can expand and fructify.

As will appear from the previous correspondence on the subject, the University has been always more than doubtful whether with the growing demands of Post-Graduate studies in their many and exacting ramifications, our private colleges or even Government colleges could do full justice to Post-Graduate studies. As a matter of fact, no private college other than the Scottish Churches College has come forward to participate in the work and its work, as shown above, is partial; the work done in the three Government Colleges, viz., the Presidency College, the Dacca College and the Gauhati College, is also partial and for want of funds is not as satisfactory as it might be.

Resources that might go towards strengthening the Post-Graduate teaching of the colleges can but do so only inadequately, and their diversion to under-graduate studies will be a source of real strength to the main purpose of those institutions. It is becoming clearer and clearer every day that scattered Post-Graduate teaching cannot be conducive to its best interests, and there would appear to be no justification for allowing matters to drift instead of strengthening and expanding University work in this direction.

The University was in full possession of the details of the situation to make routine communication with its affiliated colleges unnecessary at the beginning, and when the colleges were invited to state what further steps they might be able to take towards expansion of their Post-Graduate teaching, the response was absolutely unsatisfactory, as has already been stated above.

For the moment I do not refer to the details regarding the Science College referred to in your letter No. 1093, dated the 19th June, 1915, as the subject forms part of a fuller and separate communication. In this connection I may point out that the recommendations of the Sub-Committee, which investigated the finances of the University and which is referred to in your letter, were embodied in the Budget for the last year. Copies of last year's and this year's Budgets are herewith annexed for reference and will give full details of the financial position of the University.

I now proceed to deal with some of the matters mentioned in your letter No. 1634, dated the 14th October, 1915, so far as they refer to the Arts Classes of the University and have not yet been dealt with already; details given in my letter No. 12116, dated the 26th June, 1915, need not be repeated.

The Hon'ble the Vice-Chancellor and the Syndicate are aware, as you have reminded them, that the Government of India by its letter No. 2151, dated the 18th September, 1912, approved of the uses to which the University proposed to devote the Government grant of Rs. 65,000, the system that had been introduced before 1912 being in existence then, and that the continuance of permission for such use was sanctioned with a view to improving the arrangements already made. You remind the Hon'ble the Vice-Chancellor and the Syndicate that the University had at the time no desire to cover the whole course of M.A. studies. Only Rs. 15,000 out of the said sum of Rs. 65,000 goes towards assisting the teaching in the Post-Graduate classes, and no attempt at covering the whole course of M.A. studies could then or now be possible, with the existing resources, whether derived from the Government or from the fees of students or as a contribution from Fee Fund of the University. So far there has been no departure from what was stated in this Office letter No. 6815, dated the 28th April, 1912. The University is not attempting to cover and cannot yet cover the whole of the M.A. courses.

Your letter No. 1634 of the 14th October, 1915, reminds the Hon'ble the Vice-Chancellor and the Syndicate that, at the time, the University added the proviso that the arrangement for the entertainment of University Lecturers was to be regarded as provisional. So it was and so it is now, and the University feel that the arrangements which have so far been more or less provisional, should be placed on a sounder and a firmer footing.

The Hon'ble the Vice-Chancellor and the Syndicate are unable to follow you when you state that the Government feel themselves unable to give any definite approval of the scheme; for the scheme had been brought to the notice of your Government and had been initiated partly with its assistance, as will appear from the previous correspondence on the subject.

You refer to the many "admitted defects" of the system, defects which have been referred to in my previous letter. The Hon'ble the Vice-Chancellor and the Syndicate thought it their duty to make known to the Government such defects as were then in existence, with a view to securing means of having them remedied, and they trust that frank admission of defects will not be allowed to stand in the way of their removal.

The Hon'ble the Vice-Chancellor and the Syndicate again fail to follow you when you suggest that the existing facilities for M.A. teaching in the University fall short of those provided by affiliated colleges. If the reference is to the necessarily defective class arrangements owing to insufficient housing, to which reference has been made more than once, the University claims and appeals for means of improving them; such improvements can be effected without much difficulty by building on the fish-market site.

The Hon'ble the Vice-Chancellor and the Syndicate are grateful that as a result of the recent interview of the Hon'ble the Vice-Chancellor with the Hon'ble the Member in charge of the Education Department, at Simla, when three sets of plans were discussed, the Hon'ble Member was pleased to countenance the scheme of partial building on the fish-market site for the present out of the accumulations in the hands of the University. Under a recent decision of the Hon'ble the High Court a considerable amount—Rs. 1,80,407: has been recovered from the owner of the market who had been overpaid and application is being made to the Government of Bengal for transfer of this sum to the University in the same way as the previous transfer of this sum to the University in the same way as the previous unspent balance and the current revenue were transferred. When this is done some relief in this direction will be afforded. The plans on lines of the alternative suggested by the Hon'ble Member are being expedited, and the Hon'ble the Vice-Chancellor and the Syndicate hope to place them early before the Government for its final sanction. The Hon'ble the Vice-Chancellor and the Syndicate are also grateful to note in this connection that the idea of roadside shops, which may bring a monthly income of not less than a

thousand Rupees a month, has been approved and the plans are being altered accordingly.

The Hon'ble the Vice-Chancellor and the Syndicate are, however, unable to admit any other defects in the organisation of the Post-Graduate Classes; for, as shown above, the staff in every department of study undertaken in the University is both qualitatively and quantitatively superior to the staff obtainable anywhere else and more alternative subjects are provided for than anywhere else.

The "phenomenal increase" of candidates to which you refer is by no means temporary (as shown by the statistics already furnished), however temporary and unsatisfactory the machinary for their instruction may be.

As regards the possibility of collaboration with the affiliated colleges, the system of exchanges of lectures indicated above is being tried as far as possible, and further improvement in this direction may be expected.

You ask for copies of correspondence that has passed between the University and the constituent colleges on the subject of co-operation and division of work. I enclose copies of such of the letters as are available.

The statistics asked for are given in the statements annexed hereto and referred to here.

The Hon'ble the Vice-Chancellor and the Syndicate have now furnished answers with regard to the various matters dealt with in your two letters under acknowledgment. The members of the Education Department have had a free and full interchange of view and opinions with the Hon'ble the Vice-Chancellor, and the Hon'ble the Vice-Chancellor and the Syndicate earnestly submit that, as far as the resources of the Government may permit, means may be furnished for strengthening the Post-Graduate Classes and placing them on a sound and permanent footing.

I have the honour to be,

SIR,

Your most obedient servant,

Registrar.

No.

FROM

P. BRÜHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,

Registrar, University of Calcutta.

To

THE SECRETARY, GOVERNMENT OF INDIA,

DEPARTMENT OF EDUCATION.

(Through His Excellency the Rector.)

Senate House, the *1916.*

SIR,

I have the honour, by direction of the Hon'ble the Vice-Chancellor and the Syndicate, to address you regarding certain matters referred to in your letter No. 1093, dated the 19th of June, 1915 and your No. 1634, dated the 14th of October, 1915, in connection with the Post-Graduate Science Classes, known as the University College of Science.

In a separate letter of date certain points raised in the letters referred to above with respect to the Post-Graduate Arts classes are being dealt with.

As my letter No. 12116, dated the 26th June, 1915, already contains replies to various questions raised in your letter of the 14th October, 1915, I may be permitted to refer you to it, without here repeating the statements made in it.

With reference to the remark contained in your letter No. 1635, that no mention is made in my previous letter as to what discussions took place, before the initiation of the Science College scheme, between the University on one hand and the Medical College and the Presidency College on the other, on the subject of the organization of higher scientific teaching and research in Calcutta, and the possibility of co-operation, I have to state that there appears to have been no separate discussion apart from what took place at meetings of the Syndicate and Senate, nor does it appear that there was any occasion for such separate discussion, as the Syndicate was and is fully acquainted with the details of the work carried on in those two colleges. The course in Zoology based on the Syllabus prescribed for the Preliminary Scientific M. B. Examination is totally different from the higher courses of study and the research work which students who prepare for the M.Sc. and D.Sc. Examinations will engage in, as soon as suitable opportunities for such work will be provided in the Science College.

As already stated in my previous letter, the accommodation available in the Presidency College for the teaching of Physics and Chemistry is limited; this matter will be referred to again in the latter parts of the present letter.

The development of the University College of Science is still in progress. Although this progress has not been as rapid as, at one time it was hoped to be, it has nevertheless been considerable. The value, in landed property and money, of the endowment made by Sir Taraknath Palit is sixteen lakhs of rupees and the annual income derived therefrom amounts to approximately Rs. 63,000. Out of this sum the University is bound to maintain at least two Chairs, one for Chemistry and the other for Physics. The Professors-elect are Dr. P. C. Ray for Chemistry and Mr. C. V. Raman for Physics. The former is expected to join in October, and the latter in November next. The balance of the income, after payment of the salaries of the two professors, is to be applied to awarding stipends to research scholars, in paying the salaries of Demonstrators and Assistants and in equipping the laboratories. The University, as Trustee, is also bound to send annually a distinguished graduate in Science for training outside India.

Sir Rashbehary Ghose presented the University with a gift of ten lakhs of rupees. The income from this fund amounts to approximately Rs. 40,000 per annum. Out of this sum the University is bound to maintain four Chairs, namely one Chair each for Applied Mathematics (Dr. Ganes Prasad), Physics (Mr. D. M. Bose), Chemistry (Dr. P. C. Mitter) and Botany (Mr. S. P. Agharkar). The Professors of Mathematics and Chemistry have already joined their appointments. The Professors of Physics and Botany are interned in Germany, where they had been sent for training shortly before the war broke out. The University is bound to apply the remainder of the income of the Ghose Fund (after payment of the salaries of the four Professors) in granting stipends to research scholars, and in contributing towards the equipment of the laboratories.

Besides the income derived from these two funds, the University receives an annual grant of Rs. 12,000 from the Government of India for the maintenance of the laboratory. This is part of the annual grant of Rs. 65,000 for promotion of higher studies mentioned in my letter of date on the Post-graduate Arts classes. The University has spent, out of its Reserve Fund (formed out of the surplus of Examination Fees realised from

candidates) about three and a half lakhs of rupees for the construction of the laboratory buildings on the land given by Sir Tarakanath Palit. About half a lakh more will be needed to complete the building and to put the grounds in order.

The original scheme included, as an integral part, the provision of a hostel for the residence of demonstrators, assistants, research students and students preparing for the M.Sc. Examinations. The construction of such a hostel building will require an expenditure of not less than one lakh of rupees. It will also be necessary to provide residential quarters for the professors. The latter part of the scheme is most essential. Not only does the success of scientific experiments frequently depend on unbroken continuity of the work, which is possible only, if the worker lives in close proximity of his laboratory, but the influence which a teacher is able to exercise over the intellectual and moral development of the students placed under his charge is greatly increased by his remaining in close contact with them outside the laboratory and lecture-room. When the present and the previous Hon'ble Member in charge of the Education Department visited the Science College buildings, the Hon'ble the Vice-Chancellor showed them a plot of land to the south-west of the College premises which had not yet been built upon and which could therefore be acquired at cheap rate. When the Hon'ble Member visited the College again in August last, the Hon'ble the Vice-Chancellor pointed out to him that tiled huts were already springing up on this plot of land and it would not be long before pucca buildings would be erected. The Hon'ble the Vice-Chancellor and the Syndicate earnestly appeal to the Government to acquire this plot of land at an early date and thus to make it available for future use.

The University has already spent out of its own funds or levied Rs. 50,000 in the equipment of the laboratories and will have to make an immediate contribution of a like amount for the same purpose. This amount has been provided in the University Budget for the present year.

Our staff, at the present moment, consists of two Professors of Physics, two Professors of Chemistry, one Professor of Applied Mathematics and one Professor of Botany. Two assist them, we have two brilliant graduates in Chemistry, four in Applied Mathematics, and eight in the different branches of Physics. They are all paid from the income of the Palit and the Ghose Funds.

We have opened an M.Sc. Class in Chemistry; the course lasts for two years, and we have eight students in each class. There are also four research students working for the Doctor's Degree. In Physics, six of the eight assistants are research students, and in Applied Mathematics, three of the four Assistants are research students. Important original papers have been published in Physics, Chemistry and Applied Mathematics.

The absolute need for the University Classes in Science as outlined above is manifest. The Presidency College is the only College affiliated in Physics, Chemistry and Applied Mathematics to the M.Sc. standard. The Dacca College is not affiliated, but has M.Sc. Classes in Chemistry under University Lecturers. The space available in the Presidency as well as in the Dacca College is extremely limited and is not sufficient even for those students who have taken their B.Sc. from their respective Colleges. B.Sc. graduates from other Colleges find it merely impossible to secure any instruction in the M.Sc. Course. Quite recently, the Presidency College authorities declined to admit into their M.Sc. Class in Physics a student who had passed the B.Sc. with first class Honours in Physics from the Scottish Churches College, on the ground that they were not able to find room even for their own students, some of whom had taken a mere pass at the B.Sc. Examination. The Hon'ble the Vice-Chancellor and Syndicate were appealed to on the occasion, but they were powerless.

The University of Calcutta & Acharya P.C.Ray 1906-1944

It is not correct to suggest that the University is competing with the Colleges; there is absolutely no question of competition; if we could provide for the instruction of a hundred or two hundred students in one or more subjects for the M.Sc. Examination, the change would be felt. The Science College has already been obliged, for want of accommodation, to reject fully qualified students anxious to join it.

The Hon'ble the Vice-Chancellor and the Syndicate are grateful to the Government for its past generosity, and they are quite aware of the many calls on its resources, apart from the stringency and stress of the present times. They do not venture to suggest that what the Government finds impossible to undertake should be attempted. They, however, do confidently suggest and hope that, as soon as possible, further financial assistance will be afforded for the purposes of further developments in the directions indicated in this letter.

In the meantime tokens of increasing good will of the Government towards the growing institution, on however modest a scale, will be much appreciated and highly useful. An impression, though not well-founded, has got abroad that such good will is wanting. It is undesirable in the interests of higher scientific education, both theoretical and practical, that such an impression should exist and its early removal can only act beneficially in more ways than one and is likely to stimulate further public-spirited generosity.

The Governing Body of the Sir T. N. Palit and the Board of Management of the Sir Rashbehary Trust appointed a sub-committee consisting of the Hon'ble Sir Asutosh Mookerjee, Kt., the Hon'ble Mr. Mahendranath Ray, Dr. P. Brahl, Dr. P. C. Ray and Dr. P. C. Mitter. The Sub-Committee has made reports from time to time. These reports have been adopted by the Governing Body and confirmed by the Syndicate, and in accordance with them appointments have been made by the Senate and appliances and fittings ordered. The reports of the Sub-Committee contain details of the working of the scheme, which you ask for in your letter under acknowledgement. The Budget for this year and the last year give the details regarding financial matters asked for in your letter. Copies of the present and the last Budget and the Reports are annexed.

For the purpose of easy reference I annex a statement of Receipts and Payment of this University during the year 1915-16, including the income from, and the expenditure met from, the Sir Taraknath Palit and the Sir Rashbehary Ghose Funds, as also a statement of the contributions made by the Government of India and the University on account of the Science College.

The names of the Professors, Assistant Professors and Assistants to Professors engaged in the work at the Science College as well as a statement of their pay are contained in the separate list attached herewith.

The working expenses are indicated in the Budget of the current year.

All the information asked for by the Government is now at its disposal, and the Hon'ble the Vice-Chancellor and the Syndicate confidently hope that their request for help will be complied with as soon as Government resources permit.

There is a great demand for the higher teaching in Science, and it is essential that the scheme rendered possible by the munificence of Sir Taraknath Palit and Sir Rashbehary Ghose should not languish from lack of funds. For the present we require at least two lakhs of rupees as a capital grant and an additional annual grant of Rs. 24,000 a year. If the whole of the non-recurrent grant is not available at once, it may be spread over two years. The University Classes in Science will have to be maintained, because the Senate accepted the two great endowments on condition that such classes would be established. No one will expect the Senate to commit

of a paper on their Vernacular Language (Marathi) at the Matriculation Examination :—

Narayan Trimbak Paturkar.
Madheo Viswanath Paturkar.
Keshav Viswanath Paturkar. (He was unsuccessful at the last Matriculation Examination of the Allahabad University).

RESOLVED —

That the application be sanctioned on condition of a declaration being submitted by Mr. V. P. Paturkar that the vernacular of his sons is not a language included in the list of vernaculars given in Section 4 of Chapter XXX of the Regulations.

3066. Read an application from K. Mohammad Ishaq, a resident of Agra, praying that, as the Allahabad University does not allow suitable choice of subjects, he may be permitted to appear at the next Matriculation Examination of this University as a private student.

RESOLVED—

That the application be refused.

3067. Read an application from Maulvi Muzaffer Ahmed, who passed the Higher Madrassa Standard Examination in April, 1909, and who has been serving as the Head Maulvi of the Mangalkandi H.E. School for about two years, requesting permission to appear at the next Matriculation Examination in English only as a private student.

RESOLVED—

That Maulvi Muzaffer Ahmed be permitted to appear at the Matriculation Examination of 1917 in English only as a private candidate.

3068. Read a letter from the Deputy Commissioner of Police, Special Branch, Calcutta, reporting that Adiswar Bhattacharyya, a student in the Fifth-year Mathematics Class of the University College, has been arrested under Defence of India Act.

ORDERED—

To be recorded.

3069. Read an application from Gorakhnath Trivedi, a student in the Fourth-year B.Sc. Class of the Patna College up to 25th September, 1916, when he was expelled from the college

for a period of eight months for taking an active part in the recent strike at the college, praying that in the circumstances stated therein, the sentence of expulsion may be withdrawn in his case or that the period of expulsion may be reduced so as to enable him to proceed to the next B.Sc. Examination as a regular student or he may be permitted to prosecute his studies in some other college.

RESOLVED—

That the application be referred to the Principal, Patna College.

3070. Read a letter from the Chief Clerk, Smithsonian Institution, United States of America, stating that the aforesaid Institution will be pleased to send to the Calcutta University through the International Exchange Service copies of such of the Smithsonian Publications mentioned in the list supplied to them, as are now in print together with recent lists of Smithsonian Publications and that all Publications of the Institution will be gratuitously issued to the University regularly through the India Store Department, India Office, in London.

RESOLVED—

That the thanks of the Syndicate be conveyed to the authorities of the Smithsonian Institution.

3071. Read an application from Babu Sudhanath Mukherjee, University Inspector of Hostels and Messes, requesting that privilege leave for two months may be granted to him with effect from the 16th November, 1916.

RESOLVED—

To be postponed.

7032. Read a memo. from the Inspector of Schools, Rajshahi Division, forwarding an application from the Secretary, Porjana Mukundanath H. E. School, requesting that the recognition of the school may be extended in Geography to the Matriculation standard with effect from the year 1916, so as to enable the school to send up candidates at the Matriculation Examination of 1917 with Geography as one of their subjects, and stating that Babu Heramhanath Bagchi, B.A., who has 15 years' experience as a teacher of Geography, has been placed in charge of teaching the subject, and enclosing a list of apparatus provided for the teaching of Geography in support of his application.

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the Director of Public Instruction, Bengal, be requested to favour the Syndicate with an expression of his opinion on the claim of the Porjana Mukundanath H. E. School to teach Geography to the Matriculation standard.

3073. Read a letter from the Superintendent, St. Anthony's A. V. High School, Kandawgkay, Rangoon, stating in reply to this Office letter No. 3285, dated the 14th September, 1916, on the subject of the extension of recognition of the aforesaid School in Geography to the Matriculation Standard, that Mr. S. Satyanadhan, who passed the F.A. Examination of the Madras University in 1897 and the A. V. Higher Grade Examination which is the highest test for teachership under the Burma Education Code, and who has been serving as the Head Master of the School since 1898, has been placed in charge of Geography in place of Mr. A. David, who was considered incompetent by the Syndicate for teaching Geography to the Matriculation standard, and requesting that under the circumstances the extension of recognition prayed for may be granted.

RESOLVED—

That the appointment of Mr. S. Satyanadhan as teacher of Geography be accepted and that the St. Anthony's A. V. High School, Kandawgkay be recognised as competent to teach Geography to the Matriculation standard.

3074. Read a letter from the Director of Public Instruction, Assam, forwarding, with reference to this Office letter No.10858, dated the 23rd May, 1916, on the subject of an application from the Secretary, Harendranarayan Seminary, Bagribari, praying for the extension of recognition of the School in Geography to the Matriculation Standard with effect from the session 1916-17, copy of a report on the subject from the Inspector of Schools, Assam Valley Circle, and recommending that the extension of recognition asked for may be granted on condition that the school is supplied, before the close of the current session, with such other Geographical Books and Apparatus as are recommended in the Inspector's Report.

RESOLVED—

That the Harendranarayan Seminary, Bagribari, be recognised to be competent to teach Geography to the Matriculation Standard and that the authorities of the school be directed to arrange for the supply, at an early date, of the books and apparatus recommended by the Inspector of Schools.

University of Calcutta

MINUTES

FOR THE YEAR

1916

PART VII

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

REPORT

OF THE

SYNDICATE FOR THE YEAR 1916

The usual examinations were held during the year in Arts, Science, Law, Medicine and Engineering; and a tabular statement is appended, showing the results and affording a comparison with the results of the previous year. The total number of candidates, who appeared at this year's examinations, was 30,509 against 27,360 in the previous year.

Matriculation Examination.

The number of candidates registered for the Matriculation Examination held in March, 1916, was 14,221,* of whom 8,280 passed, 5,818 failed, 31 were absent, 1 was expelled and 21 had their admission cancelled. Of the successful candidates, 4,399 were placed in the First Division, 3,382 in the Second and 499 in the Third. Of the 5,818 candidates who were unsuccessful, 5,372 failed in English, 643 in Compulsory Mathematics and 511 in Additional Mathematics, 787 in Compulsory Classical Languages and 1,115 in Additional Classical Languages, 369 in the Vernacular Composition, 2,617 in History, 493 in Geography, 1 in Mechanics and 230 did not obtain the minimum aggregate.

The following table shows the number of candidates that came up from the different Provinces, the number that passed and the

* Of these, 70 candidates appeared in one subject only, of whom 57 passed, 12 failed and 1 was absent.

attempt has thus been made on a small scale to bring University and the Colleges closer together in this direction, the Lecturers being mostly Principals and Professors of Colleges. A number of eminent scholars was invited to take part in the newly organised scheme by delivering a course of lectures on special subjects.

The following gentlemen have been invited to deliver University Extension Lectures :—

Mr. M. R. Ry. L. K. Ananths Krishna Iyer, A.V.L., B.A., L.T.
On Anthropology and Ethology of India.
Mr. W. C. Wordsworth, M.A.
„ J. W. Holme, M.A.
„ Satischandra Ray, M.A.
Dr. Hiralal Haldar, M.A., Ph.D.
„ C. E. Cullis, M.A., Ph.D.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
Mr. Mana Subedar, B.A., B.Sc.
Babu Bipinbihari Sen, M.A.
Dr. Adityanath Mukherji, M.A., Ph.D.
„ Ganesh Prasad, M.A., D.Sc.
The Hon'ble Mr. Z. R. Zahid Suhrawardy, M.A., B.L.
Mr. J. C. Coyajee, B.A., L.L.B.
Rev. G. Kwan, M.A.
Mr. G. Findlay Shirras, M.A.

The following extension lectures were delivered in 1916 :—

Dr. P. C. Ray—on the Pursuit of Chemistry in Bengal.
Mr. J. R. Banerjea—on (1) Carlyle.
(2) New Tendencies of thought in Europe and America.
Dr. T. R. Glover—On Athens in the days of Plato.
Mr. A. K. Maitra—Series of lectures on the Downfall of the Pal Kingdom of Bengal.
Mr. J. N. Das Gupta, —(1) A mid-Eighteenth Century Bengali Manuscript.
(2) A legendary History of Alexander the Great.
Mr. E. B. Bliss—On Constructive Ideals in Education.
Dr. C. A. Bentley—Six lectures on Bengal Malaria.
Mr. R. S. Knox—The Art and Spirit in Keats' Poetry.
Mr. J. C. Coyajee—Two lectures on War Finance.
Mr. R. N. Gilchrist—Two lectures on Nationality.
Dr. D. N. Mallik—(1) On Astronomy—Ancient and Modern.
(2) The Solar System of the Ancient and Modern Astronomy.
Mr. Heramba chandra Maitra—On the Hope of Immortality.
Dr. H. Stephen—The Teaching of John Ruskin.

The following gentlemen have agreed to deliver lectures next year :—

Mr. J. N. Das Gupta The beginnings of English Education in India.
Mr. S. Ray Two lectures on *Bhava*.
Dr. Syamadas Mukerjee—The Fundamental Concepts of Differential Calculus.
Dr. Brajendranath Seal—The Tribe and the Family—Origins.
Dr. Satischandra Vidyabhushan—The System of Education in Ancient and Medieval India.
Dr. Hiralal Haldar On the Natural and the Spiritual World.

Dr. Ganes Prasad—Two lectures on Poisson's Equation and its failure for some volume distributions.
Mr. Manu Subedar—Two lectures on "The Problem of Railway Finance and Management in India."
Mr. J. B. Banerjea—On Browning.

Some of the lectures delivered in 1916 are being printed and the First volume of the series is nearly ready.

UNIVERSITY POST-GRADUATE CLASSES.

University Professors.

The following University Professors, University Lecturers and Assistant Professors were engaged in the Higher Teaching Work of the University during the year 1916:—

English.

Dr. H. Stephen, M.A., D.D, University Professor of English.
R. S. Knox, Esq., M.A., University Professor of English (Has been granted leave on half-pay for one year, since July, 1916).
Mr. Heramhachandra Maitra, M.A. (Lecturer).
Mr. R. Datta, M.A. (Asst. Professor).
Babu Harendrakumar Mukerjee, M.A. (Asst. Professor).
Babu Suniti Kumar Chatterjee, M.A. (Asst. Professor).

Assistant to the University Professor f English.
Mr. Sushilkumar De, M.A.

Mental and Moral Philosophy.

Dr. B. N. Seal, M.A., Ph.D., King George V Professor of Mental and Moral Philosophy.
Mr. J. B. Banerjea, M.A., B.L. (Lecturer).
Mr. B. C. Ghosh, M.A., M.B., B.C. (Lecturer).
Mr. P. K. Chakrabarti, M.A. (Lecturer).
Dr. Hiralal Haldar, M.A., Ph.D. (Asst. Professor).
Dr. Randas Khan, M.A., Ph.D. (Asst. Professor).
Babu Ambikacharan Mitra, M.A. (Asst. Professor).
Dr. Narendrakumar Sengupta, M.A., Ph.D. (Asst. Professor).

Assistants to George V Professor of Mental and Moral Science.

Babu Sushilkumar Maitra, M.A.
" Manmathanath Banerjee, M.Sc.

History.

Mr. S. Khuda Bukah, M.A. (Lecturer).
" Bipinbihari Sen, M.A. (Asst. Professor).
" Surendranath Majumdar, Sastri, M.A. (Asst. Professor)
" Ramesachandra Majumdar, M.A. (Asst. Professor).
" Gouranganath Banerjee, M.A. (Asst. Professor).
" A. C. Datta, M.A. (Asst. Professor).
" W. A. J. Archbold, M.A. (Lecturer). } Dacca.
" R. B. Ramabotham, B.A. (Lecturer). }
" Aswinikumar Mukerjee, M.A. (Lecturer). }
" Jadunath Sarkar, M.A. (Lecturer).—Patna.

Chemistry.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S. (Sir T. N. Palit Professor of Chemistry).
Dr. P. C. Mitter, M.A., Ph.D. (Sir Rashbehary Ghose Professor).
Rai B. N. Das, Bahadur, M.A., B.Sc. (Lecturer), Dacca.
Mr. B. K. Singh, M.A. (Lecturer, appointed in place of Dr. Watson).

Assistants to Sir T. N. Palit Professor of Chemistry.

Mr. Jnanendrachandra Ghosh, M.Sc.
" Jnanendranath Mukerjee, M.Sc.

Committee appointed by the Government of India, to report on certain matters connected with Post-graduate Studies in the University.

The Government of India appointed a Committee, consisting of the following gentlemen, to report on certain matters in connection with the Post-graduate teaching in the University:—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., *President.*
The Hon'ble Mr. W. W. Hornell, M.A.
Dr. Brajendranath Seal, M.A., Ph.D.
Dr. H. H. Hayden, D.Sc., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Rev. Dr. G. Howells, M.A., Ph.D., B. Litt., B.D.
Mr. C. J. Hamilton, M.A.
" W. C. Wordsworth, M.A.
" G. Anderson, M.A.
} *Members.*

The Committee has submitted their report, which is at present under the consideration of the Government of India.

Press and Publications Committee.

The Press and Publications Committee continued its operations during the year under review. The Committee has been appointed to report to the Syndicate from time to time on the working of the University Press and the Publications Department and to suggest what steps should be taken for the publication of the University Calendar, Minutes, Selections, Text-books and other publications. The Committee consists of—

The Hon'ble the Vice-Chancellor, *President.*
Mr. J. N. Das Gupta, B.A. (Oxon.), Barrister-at-Law.
Babu Birajmohan Majumdar, M.A., B.L.
" Satischandra Ray, M.A.
Mr. C. J. Hamilton, M.A.
The Registrar.

The Senate have adopted the following procedure regarding publication of a book by the University:—

The Syndicate shall, in consultation with the Board of Studies concerned and the Board of Accounts, prepare a statement showing—

(*a*) The object and necessity for the publication.

(*b*) The probable expenditure and income from the sale of the publication.

(*c*) The name and qualification of the author or editor and the honorarium proposed to be paid to him.

This statement shall be laid before the Senate and the projected work shall be undertaken only after the scheme has been approved by the Senate, subject to such modifications as the Senate may direct.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Extension of Affiliation.

M.A. AND M.Sc.

Presidency College—Botany.

B.A.

Baptist College, Rangoon—English (Honours)
K. N. College, Berhampur—History (Honours).
M. C. College, Sylhet—English (Pass), Vernacular Composition, History (Pass), Persian (Pass), Sanskrit (Pass), Philosophy (Pass), Mathematics (Pass).
St. Paul's C. M. College—Mathematics (Pass).
Serampur College—Syriac (Pass).
Ripon College—Mathematics (Honours), Sanskrit (Honours).

I.A.

Bethune College—Mathematics.
Hughli College—Logic.
Midnapur College—Physics and Chemistry.

I.Sc.

Midnapur College—English, Vernacular Composition, Mathematics, Physics, Chemistry.

B.T.

Patna Training College.

Inspection of Colleges.

In accordance with the provision made in Sections 2 and 3, Chapter XX of the Regulations, the annual inspection of Colleges affiliated to the University was partially held during the year by the University Inspector of Colleges jointly with duly qualified persons deputed by the Syndicate for the purpose. The reports submitted by the Inspectors have been considered by the Syndicate and the defects pointed out have been brought to the notice of the authorities of the Colleges concerned together with suggestions for their removal and for other necessary improvements. The Syndicate are glad to be able to report that the improvements in the working of the Colleges noticed in previous years have been fairly maintained.

The attention of the Hon'ble the Vice-Chancellor and Syndicate has been called to the over-crowded condition of some of the colleges and the proportionately small number of Professors. Enquiries are being made by the Syndicate with a view of bringing about improvements in this direction.

The following gentlemen were appointed to inspect the affiliated Colleges during 1916, conjointly with the University Inspector of Colleges :—

Presidency College.—Dr. Brajendranath Seal, M.A., Ph. D.; Sir Thomas Holland, K.C.I.E., D.Sc.; T. T. Williams, Esq., B.Sc.; Shams-ul-Ulama Abu Nasr Muhammad Waheed, M.A.; Major A.T. Gage, I.M.S.

The University of Calcutta & Acharya P C Ray 1906-1944

Scottish Churches College.—Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.; Dr. C. E. Cullis, Ph.D.; C. J. Hamilton, Esq., M.A.

Metropolitan Institution.—W. C. Wordsworth, Esq., M.A.; Rev. Dr. J. Watt, M.A., D.D.; Mr. S. C. Ray, M.A.; Babu Jaminibhushan Ray, M.A., M.B.

City College.—Rev. Dr. G. Howells, M.A., Ph.D., B. Litt., B.D.; D. B. Meek, Esq., M.A., B.Sc.; T. T. Williams, Esq., B.Sc.

Ripon College.—T. S. Sterling, Esq., M.A.; Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.; J. C. Coyajee, Esq., B.A.

Bangabasi College.—Dr. H. Stephen, M.A., D.D.; C. W. Peake, Esq., M.A.; C. C. Calder, Esq.

St. Xavier's College.—Mr. Herambachandra Maitra, M.A.; Dr. D N. Mallik, B.A., Sc.D., F.R.S.E.

Dacca College.—Rev. Dr. J. Watt, M.A., D.D.; E. E. Biss, Esq.

Jagannath College.—Rev. Dr. J. Watt, M.A., D.D.; Babu Bidhubhushan Goswami, M.A.

Rajshahi College.—Mahamahopadhyay Haraprasad Sastri, C.I.E M.A.; Rai B. N. Das, Bahadur, M.A., B.Sc.

Chittagong College.—Rai Kumudinikanta Banerjee, Bahadur, M.A.

Victoria College, Cooch-Bihar.—Mr. Herambachandra Maitra, M.A.; Dr. P. C. Mitter, M.A., Ph.D.

Cotton College, Gauhati.—C. J. Hamilton, Esq., M.A.; Babu Jnanchandra Ghosh, M.A.

Murarichand College, Sylhet.—Dr. Brajendranath Seal, M.A., Ph.D.; J. N. Das Gupta, Esq., B.A.

Hughli College.—Rev. Dr. G. Howells, M.A., Ph.D., B. Litt., B.D.; Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.,

Krishnagar College.—Mr. J. R. Banerjea, M.A., B.L.; Babu Jnanchandra Ghosh, M.A.

Krishnath College, Berhampur.—T. S. Sterling, Esq., M.A.; Babu Brajmohan Majumdar M.A., B.L.

Hindu Academy, Daulatpur.—Dr. Hiralal Haldar, M.A., Ph.D.; Mr. G. C. Bose, M.A.

uttermost. Principal James addressed assembled Presidency College students. Vice-Chancellor."

The following telegram, in reply, was received :—

"Please convey to Members of University His Excellency's warm thanks."

Principal W. C. Wordsworth also delivered a lecture on "Some Aspects of the War" on the 4th August, 1916.

Institution of the Faculty of Commerce.

The Syndicate has approved the idea of instituting a Faculty of Commerce in this University and recommended to the Senate the appointment of a Committee to consider the feasibility of the University taking up the work and if feasible, to prepare a scheme for it. The question is still under the consideration of the Senate.

Retirement of Fellows under Section 4, Clause 2, of Act VIII of 1904.

Under Section 4, Clause 2, of the Indian Universities Act 1904 (VIII of 1904) tenure of office of the under-mentioned gentlemen as Ordinary Fellows of the University terminated on dates stated against their names :—

Sir Kailaschandra Basu, Kt., C.I.E., L.M.S., F.C.S.	...	8th Dec., 1916.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.	...	11th March, "
Dr. Kedarnath Das, M.D.	...	11th March, "
Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.		8th Dec., "
Mr. J. N. Das Gupta, B.A. (Oxon.), Bar-at-Law	...	8th Dec., "
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.	...	8th Dec., "
Mr. Lalmohan Das, M.A., B.L.	...	25th Sept., "
Rai Krishnachandra Banerjee, Bahadur, B.A., A.M.I.C.E.	...	25th Sept., "
Dr. P. C. Roy, C.I.E., D.Sc., Ph.D., F.C.S.	...	25th Sept., "
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.		28th Sept., "
Lt.-Col. Sir Leonard Rogers, Kt., C.I.E., M.D., F.R.C.S.	...	25th Sept., "
Mr. C. W. Peake, M.A.	...	25th Sept., "
Babu Birajmohan Majumdar, M.A., B.L.	...	11th March, "
Babu Baidyanath Narayan Sinha, M.A., B.L.	...	21st March, "
Mr. E. E. Rice	...	8th April, "
Shams-ul-Ulama Kamaluddin Ahmad, M.A.	...	8th April, "
J. R. Barrow, Esq., M.A.	...	25th Sept., "
Babu Bidhubhushan Goswami, M.A.	...	25th Sept., "
Mr. L. P. Pugh, B.C.L.	...	25th Sept., "
The Hon'ble Mr. Abdul Majid, B.A., LL.B.	...	25th Sept., "
Mr. W. Owston Smith, M.A.	...	25th Sept., "
The Hon'ble Nawab Syed Nawabali Chaudhuri, Khan Bahadur.		8th Dec., "
Mr. F. W. Sudmersen, B.A.	...	8th Dec., "
Mr. R. W. F. Shaw, M.A.	...	8th Dec., "

Election of Ordinary Fellows by the Faculties of Science and Law.

The undermentioned gentlemen were, under directions given by His Excellency the Chancellor, elected Ordinary Fellows of the University by the Faculties of Science and Law :—

ELECTED BY THE FACULTY OF SCIENCE.

Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.

ELECTED BY THE FACULTY OF LAW.

Babu Birajmohan Majumdar, M.A., B.L.

The approval of His Excellency the Chancellor of the election of the above-named gentlemen as Ordinary Fellows was communicated to the University by the Government of India during the year.

Election of Ordinary Fellows by Registered Graduates.

In accordance with the directions of His Excellency the Chancellor the undermentioned gentlemen were elected Ordinary Fellows by the Registered Graduates of the University :—

Dr. Bidhanchandra Ray, B.A., M.D., F.R.C.S.
Dr. Dwarkanath Mitra, M.A., D.L.

The approval of His Excellency the Chancellor of the election of the above-named gentlemen as Ordinary Fellows was communicated to the University by the Government of India during the year.

Fellows nominated during the year.

The undermentioned gentlemen have been nominated as Ordinary Fellows of the University during the year by His Excellency the Chancellor :—

Sir Kailaschandra Basu, Kt., C.I.E., I.M.S., F.C.S.
Dr. Kedarnath Das, M.D.
The Hon'ble Justice Sir John Woodroffe, Kt., M.A., B.C.L.
Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A.
Mr. J. N. Das Gupta, B.A. (Oxon.), Bar-at-Law.
The Hon'ble Sir S. P. Sinha, Kt.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Mr. C. W. Peake, M.A.
Mr. G. Findlay Shirras, M.A.
Mr. E. E. Biss.
Mr. J. R. Barrow, M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Syed Nawab Ali Chaudhuri, Khan Bahadur.
Mr. W. Owston Smith, M.A.
Mr. F. W. Sindmersen, B.A.
Mr. Debendranath Sen, M.A.
Mr. W. C. Wordsworth, M.A.
Mr. Narendranath Ray, M.A.
Mr. Apurbachandra Datta, B.A.
Rev. W. E. S. Holland, M.A.
Mr. J. W. Langford-James, M.A.
Rev. Dr. W. S. Urquhart, M.A., D. Phil.
Lt.-Col. R. P. Wilson, F.R.C.S., D.P.H., I.M.S.
The Hon'ble Mr. Dwarakanath, B.A., LL.B.
Mr. H. Lambert, M.A.

Cancellation of Fellowship under Section VII, Act II of 1857.

In exercise of the powers conferred by Section VII of the Act of Incorporation (Act II of 1857) the Governor General in Council has been pleased to cancel the appointment of the

Transfer Committee for 1916. The Transfer Committee for 1916 was constituted as follows:—

The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L., *President.*
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
J. R. Banerjea, Esq., M.A., B.L.

Constitution of the Faculties for 1916. The Faculties for the year 1916 were constituted as follows:—

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†Resigned.
‡Retired under Section 4, Clause (2), of the Indian Universities Act, 1904.
¶Retired under Section 4, Clause (2), of the Indian Universities Act, 1904, but has been re-appointed during the year.

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FACULTY OF SCIENCE.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., *Dean.*
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Babu Ramendrasundar Trivedi, M.A.
Dr. Sarvapramad Sarbadhikari, B.A., M.D.
¶Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
¶Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
V. H. Jackson, Esq., M.A.
Mr. G. C. Bose, M.A., F.C.S.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
¶Dr. P. J. Bellhi, D.Sc., L.S.O., F.C.S., F.C.S.
‡Lt.-Col. Sir Leonard Rogers, Kt., C.I.E., M.D., F.R.C.S., I.M.S.
¶C. W. Peake, Esq., M.A.
Rev. J. Mitchell, M.A., F.R.A.S.
Babu Jnanendra Ghosh, M.A.
§Prof. E. P. Harrison, Ph.D.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
†Dr. E. R. Watson, M.A., D.Sc.
S. W. Kemp, Esq., B.A.
†Rev. Dr. J. Watt, M.A., D.D.
Dr. W. H. Young, M.A., Sc.D., F.R.S.
C. S. Middlemiss, Esq., B.A., F.G.S.
Dr. K. S. Caldwell, B.Sc., Ph.D., F.I.C., F.C.S.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Mr. Aparbachandra Datta, B.A. (Cantab).
Mr. H. Lambert, M.A.

†Resigned.
¶Retired under Section 4, Clause (2), of the Indian Universities Act, 1904, but has been re-appointed during the year.
‡Retired under Section 4, Clause (2) of the Indian Universities Act, 1904 (VIII of 1904).
§Fellowship cancelled.

Lt-Col. F. O'Kinealy, I.M.S.
Dr. Bidhanchandra Ray, B.A., M.D., F.R.C.S., M.R.C.P.
Lt-Col. R. P. Wilson, F.R.C.S., D.P.H., I.M.S.

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CHEMISTRY

PAPER-SETTERS

Rev. Dr. J. Watt, M.A., D.D.
Babu Jatindranath Sen, M.A.
Raf Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
R. N. Sen, Esq., M.A., M.Sc., F.C.S.
Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Dr. P. C. Mitter, M.A., Ph.D.

EXAMINERS

THEORETICAL

Honours

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
„ K. S. Caldwell, Ph.D.
„ D. Thomson, M.A., B.Sc., Ph.D.
„ E. B. Watson, M.A., D.Sc.

Pass.

Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
„ B. N. Das, Bahadur, M.A., B.Sc.
Babu Kalidas Mallik, M.A.
„ Chunilal De, M.A.,

Practical.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S., *Chairman of the Board.*

Honours.

Civil Engineering College Centre.

Mr. W. Saunders, B.Sc. (Lond.)
Babu Jyotibhushan Bhaduri, M.A.
Mr. R. N. Sen, M.A., M.Sc.

Pass.

Presidency College Centre.

Mr. Gopimohan Sen, B.A.
Dr. Hemendranath Sengupta, D.Sc.

Scottish Churches College Centre.

Mr. B. C. Dutt, M.A.
Dr. Bhuanbihari De, D.Sc.

St. Xavier's College Centre.

Rev. Father Vennosta, S.J.
Babu Bibhubhushan Dutta, M.A.

Dacca College Centre.

Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. Annkulchandra Sarkar, M.A., Ph.D.

Gauhati College Centre.

Dr. D. Thompson, M.A., B.Sc., Ph.D.
„ P. C. Mitter, M.A., Ph.D.

The University of Calcutta & Acharya P C.Ray 1906-1944

Babu Satischandra Ray, M.A.
T. T. Williams, Esq., B.A., B.Sc.
Babu Panchanandas Mukerjee, M.A.
Mr. K. Zachariah, M.A.
Mr. W. A. J. Archbold, M.A.

M.A. AND M.Sc. EXAMINATIONS, 1916.

MATHEMATICS.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
Dr. C. E. Cullis, Ph.D.
„ D. N. Mallik, B.A., Sc.D., F.R.S.E.
„ Haridas Bagchi, M.A., Ph.D.
„ Syamadas Mukerjee, M.A., Ph.D.
Babu Indubhushan Brahmachari, M.A., B.L.
K. P. Paranjpye, Esq., M.A.
Dr. Ganes Prasad, M.A., D.Sc.
Mr. Phanindralal Ganguli, M.A., B.L.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Rai Abinaschandra Basu, Bahadur, M.A.
Mr. Narendrakumar Majumdar, M.A.
Babu Surendramohan Ganguli, M.A.
„ Saradaprasanna Das, M.A.
„ Karunamay Khastagir, M.A.
Mr. Bhupatimohan Sen, M.Sc., B.A. (Cantab).

PHYSICS.

Mr. C. W. Peake, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Mr. D. H. Meek, M.A., B.Sc.
Mr. P. Mahalanabis, B.Sc.

CHEMISTRY.

Babu Ramendrasundar Trivedi, M.A.
Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.
Dr. K. S. Caldwell, Ph.D., F.I.C., F.C.S.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Dr. E. R. Watson, M.A., D.Sc.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitra, M.A., Ph.D.
Mr. Jyotibhushan Bhaduri, M.A.

GEOLOGY.

Dr. H. H. Hayden, C.I.E., D.Sc., B.A., B.E., F.C.S.
Mr. E. Vredenberg, B.Sc.
„ P. N. Datta, B.Sc., F.G.S.
„ Hemchandra Dasgupta, M.A.

PHYSIOLOGY.

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Major D. McCay, M.D., I.M.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Babu Nibaranchandra Bhattacharyya, M.A.

University of Calcutta

MINUTES

FOR THE YEAR

1917

PART I

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 2.

THE 19TH JANUARY, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.).
S. C. MAHALANOBIS, ESQ., B.SC., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

115. Read the Proceedings of the Board of Studies in English, dated the 24th November, 1916.

ORDERED—

To be recorded.

116. Read the Proceedings of the Board of Studies in Greek, Latin, French, German and Armenian, dated the 28th November, 1916.

ORDERED—

To be recorded.

117. Read the Proceedings of the Board of Studies in Sanskrit, dated the 16th December, 1916.

ORDERED—

To be recorded.

118. Read the Proceedings of the Board of Studies in Sanskritic Languages, dated the 16th December, 1916.

127. Read the Proceedings of the Board of Studies in Geology and Mineralogy, dated the 30th November, 1916.

ORDERED—

To be recorded.

128. Read the Proceedings of the Board of Studies in Botany, dated the 30th November, 1916.

ORDERED—

To be recorded.

129. Read the Proceedings of the Board of Studies in Physiology, dated the 30th November, 1916.

ORDERED—

To be recorded.

130. Read the Proceedings of the Board of Studies in Mathematics, dated the 21st December, 1916.

ORDERED—

To be recorded.

131. Read the Proceedings of the Board of Studies in Geography, dated the 1st December, 1916.

ORDERED—

To be recorded.

132. RESOLVED—

That the following gentlemen be appointed to conduct the M.A. and M.Sc. Examinations in 1917 :—

M.A. EXAMINATION, 1917.

ENGLISH.

Dr. H. Stephen, M.A., D.D.—*Convener.*
Mr. Herambachandra Maitra, M.A.
„ Harendrakumar Mookerjee, M.A.
„ Sunitikumar Chatterjee, M.A.
„ R. Datta, M.A.
„ T. S. Sterling, M.A.
„ M. Ghosh, B.A.
„ Satyendranath Bhadra, M.A.
„ R. C. Goffin, M.A.
„ Satischandra De, M.A.
„ Rakhaldas Ghosh, M.A.
„ J. W. Holme, M.A.
„ F. W. Südmersen, B.A.

Mr. J. R. Barrow, B.A.
„ Praphullachandra Ray, M.A.
„ Asutosh Chatterjee, M.A.
„ Praphullachandra Ghosh, M.A.

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CHEMISTRY.

Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.—*Convener.*
Babu Ramendrasundar Trivedi, M.A.
Dr. K. S. Caldwell, Ph.D.
Mr. B. K. Singh, M.A. (Cantab).
Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.
Mr. Jyotibhushan Bhaduri, M.A.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Dr. Bimanbihari De, M.A., D.Sc.

Rev. G. Ewan, M.A.
„ Dr. W. S. Urquhart, M.A., D.D.
Dr. P. K. Ray, D.Sc.
Babu Kalidhan Chatterjee, M.A.
„ Haridas Bhattacharyya, M.A.
„ Susilkumar Maitra, M.A.

133. RESOLVED—

That the following gentlemen be appointed Examiners to look over answer papers of candidates at the Matriculation, I.A., I.Sc., B.A. and B.Sc. Examinations in 1917 :—

MATRICULATION EXAMINATION, 1917.

***

CHEMISTRY.

Theoretical Honours.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Dr. K. S. Caldwell, B.Sc., Ph.D.
Dr. D. Thomson, M.A., B.Sc., Ph.D.
Mr. Panchanan Niyogi, M.A., P.R.S.

Pass.

Babu Kalidas Mallik, M.A.
„ Chunilal De, M.A.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.

CHEMISTRY PASS AND HONOURS PRACTICAL.

Honours Course.

Civil Engineering College Centre.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.—*Convener.*
Mr. R. N. Sen, M.A.
Dr. Rasiklal Datta, D.Sc.
Babu Jatindranath Sen, M.A.

Pass Course.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.—*Convener.*

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 5.

THE 26TH JANUARY, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.)
S. C. MAHALANOBIS, ESQ., B.Sc., F.R.S.E
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., Ph.D.
BABU JNANCHANDRA GHOSH, M.A.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

347. Read a letter from the Principal, Ravenshaw College, Cuttack, forwarding a copy of the time-table of the college, showing the work of each Professor, subject by subject.

RESOLVED—

That it be pointed out to the Principal that ordinarily it is desirable that each professor or lecturer should teach only one subject and that he be asked to take steps to redistribute the work, if such redistribution is found to be possible.

348. Read a letter from the Principal, Midnapur College, stating his remarks on the points noticed in the report on the college for 1914-15 and 1915-16 and the Syndicate's order thereon, and enclosing a statement regarding the constitution and functions of the College Council.

RESOLVED—

That the authorities of the Midnapur College be invited to take early and effective steps to separate the College and School Hostel pending the erection of a separate hostel for the school and that they be informed that the Syndicate insists on the staffs of the college and the school being entirely separate.

349. Read a letter from Mahamahopadhyay Dr. Satischandra

enclosing an affidavit sworn in by the father of the boy together with the extract from the horoscope.

Read also an application from Thakur Madhusudan Sing, praying that the age-entry of his boy, Jagatnarayan Sing, may be allowed to be corrected in as much as owing to a mistake in the compilation of an extract from his horoscope, the age of the boy was wrongly entered in the records of the Jamtara J. B. C. School at the time of the first admission of the boy into the aforesaid school, and submitting that the delay in making this application is owing to his being ignorant of the circular on the subject, and enclosing an affidavit and the extract of the horoscope in support of his application.

RESOLVED—

That the application be refused.

399. The Registrar reported that from the Hostel Buildings Fund sum of Rs. 1,07,500 had been invested in four months fixed deposit and a further sum of Rs. 70,000 had also been invested for the same period at the rate of 5 per cent. per annum interest thereon.

RESOLVED—

That the action be approved.

400. The Registrar placed before the meeting the letter addressed to the Secretary to the Government of India, Education Department, regarding grants to Schools and the status of their teachers

RESOLVED—

That the letter be approved.

401. The Registrar requested the Syndicate to appoint Paper-setters for the Matriculation, I.A. I.Sc., B.A. and B.Sc. Examinations in 1918.

RESOLVED—

That the following gentlemen be appointed to set papers for the Matriculation, I.A., I.Sc., B.A. and B.Sc. Examinations in 1918 :—

MATRICULATION EXAMINATION, 1918.

ENGLISH.

(Including the Alternative Paper.)

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Sambuddha-gama-Chakravarti, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Babu Tulsidas Kar, M.A.
Mr. D. B. Meek, M.A., B.Sc.

CHEMISTRY.

Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Mr. Jatindranath Sen, M.A.
Mr. R. N. Sen, M.A.
Babu Chandrabhushan Bhaduri, M.A.
Dr. P. C. Ray, C.I.E., D.Sc. Ph.D., F.C.S.
Babu Ramendrasundar Trivedi, M.A.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 9.

THE 23RD FEBRUARY, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SUKIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.), BARRISTER-AT-LAW.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU JNANCHANDRA GHOSH, M.A.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
W. C. WORDSWORTH, ESQ., M.A.
REV. DR. W. S. URQUHART, M.A., D.PHIL.

776. Read the Minutes of the Faculty of Medicine, dated the 12th February, 1917.

ORDERED—

To be recorded.

777. Read the following Proceedings of a meeting of the Library Executive Committee, dated the 13th February, 1917:—

"Considered the recommendations of the Library General Committee regarding purchase of books as made at their meetings, held on the 27th July and 20th September, 1916.

RESOLVED—

To be postponed.

Read a letter from Dr. Ganesh Prasad for removal of the following books and periodicals from the Darbhanga Building to the Department of Applied Mathematics in the University College of Science:—

(*a*) The Volumes of the "Math. Annalen."
(*b*) The Volumes of the "Journal fur die Mathematik."

RESOLVED—

That the Committee recommend to the Syndicate that the provisional admission of the applicant to the Intermediate B.L. Class of the Patna Law College, after the due date, be confirmed on condition that the percentage of his attendance will be calculated from the commencement of the current session and not from the date of his admission."

ORDERED—

To be recorded.

780. Read the following proceedings of a joint meeting of the Governing Body of the Sir Taraknath Palit Endowment and the Board of Management for the Sir Rashbehary Ghose Endowment, dated the 5th February, 1917 :—

"Read a letter from the Principal, Belgachia Medical College, requesting that Rs. 50,000 with interest on account of Sir T. N. Palit's bequest to the college may now be paid.

RESOLVED—

That it be recommended to the Syndicate that Government Promissory notes to the face value of Rs. 50,000 endorsed by the Registrar be handed over to the authorities of the Belgachia Medical College on completion of a bond of indemnity or the completion of the proposed settlement with Mr. J. N. Palit whichever may be the earlier.

Read an endorsement from the Director of Public Instruction, Bengal, forwarding a copy of a letter from the Secretary to the Government of Bengal, conveying the sanction of Government to the transfer of services of Dr. P. C. Ray to the Calcutta University for employment as Sir T. N. Palit Professor of Chemistry with effect from the 2nd of November, 1916.

ORDERED—

To be recorded.

The Registrar reported that the sum of Rs. 22,700 recovered on account of mortgages had been invested in 3½ per cent. G. P. Notes.

RESOLVED—

That it be recommended to the Syndicate that the action of the Registrar be confirmed.

RECOMMENDED—

That the amounts that may be recovered from mortgages be invested in mortgages, and the War Loan, and that details

The University of Calcutta & Acharya P C Ray 1906-1944

regarding the investments be reported to the Governing Body, Sir Taraknath Palit Endowment.

Read a letter from Babu Kallynauth Mitter, C.I.E., forwarding a copy of a letter from Babu Syamacharan Biswas, requesting that, in the circumstances mentioned, he may be granted a fortnight's time to pay off his dues to the University.

RESOLVED—

That the request of Babu Syamacharan Biswas be granted.

The Registrar reported that he had sent to the Agent to Sir T. N. Palit Trust Estate for necessary action, a copy of the notice from the 1st Land Acquisition Collector, regarding the proposed acquisition of the premises No. 132-4, Russa Road North by Improvement Trust.

ORDERED—

To be recorded.

Read a letter from the Sub-Agent, Sir T. N. Palit Trust Estate, reporting the damage done to the premises No. 35, Ballyganj Road by the storm on the night of the 21st September last.

Also reporting that it will cost nearly Rs. 100 in clearing the jungles from the premises No. 35, Ballyganj Circular Road.

RESOLVED—

That the letter be recorded.

RESOLVED ALSO—

That after possession of premises No. 35, Ballyganj Road, is obtained, an estimate of the cost of repairs and of clearing the jungles be prepared and placed before the Governing Body, Sir Taraknath Palit Endowment.

Read a letter from Mr. D. M. Bose, M.A., B.Sc., Sir Rashbehary Ghosh Professor of Physics, reporting on the progress of his studies.

RESOLVED—

That the letter be recorded and it be recommended to the Syndicate that it should recommend to the Senate that additional leave on full pay for a further term of one year be granted to Professor D. M. Bose and to Professor S. P. Agharkar.

The Registrar placed before the meeting a list of books which had been ordered for the Library of the Department of Experimental Psychology of the University College of Science.

RESOLVED—

That it be recommended that the action of the Registrar be confirmed.

Read an application from Harendranath Datta, who passed the last M.Sc. Examination in Pure Mathematics in 1st Class, requesting permission to attend the lectures in the Department of Applied Mathematics in the University College of Science.

RESOLVED—

That the application be granted and that Harendranath Datta be charged the regular fees from the 1st of January, 1917.

Read an application from Bijaykumar Basak, stating that he passed the last M.Sc. Examination from the Presidency College in Physics in 1st Class, standing Second in the list, and requesting that he may be granted a Research Scholarship tenable in the University College of Science.

RESOLVED—

That a Sir Rashbehary Ghose Research Scholarship of the value of Rs. 75 per month be granted to Bijaykumar Basak for a period of one year with effect from the 1st February, 1917.

Read an application from Sasindrachandra Dhar, stating that he stood 1st in the 1st Class at the last M.Sc. Examination in Mathematics, requesting that he may be granted a Sir Rashbehary Ghose Research Scholarship in Applied Mathematics.

RESOLVED—

That a Sir Rashbehary Ghose scholarship of the value of Rs. 75 be awarded to Sasindrachandra Dhar for a period of one year with effect from the 1st of January, 1917.

Read an application from Nagendranath Sen, who passed the last M.Sc. Examination in Chemistry in Second Class, requesting that he may be granted a Research Scholarship tenable at the University College of Science.

RESOLVED—

That the scholarships in Physics and Chemistry be advertised, the scholarships to be awarded on condition that the scholarship-holders execute an agreement that they will continue to work in the University College of Science for a period of two years and that, if during that period they

The University of Calcutta & Acharya P.C.Ray 1906-1944

give up the scholarship or accept salaried appointments, they will refund the total amount drawn by them on account of the scholarships.

The Registrar placed before the meeting the following list of the menials appointed in the several Departments of the University College of Science:—

General and Chemistry Department.

2 Durwans on Rs. 12 each per month.
3 Peons on Rs. 12 each per month.
4 Bearers on Rs. 10 each per month.
1 Mali on Rs. 12 per month.
2 Malis on Rs. 10 each per month.
3 Sweepers on Rs. 8 each per month.

Physics Department.

2 Bearers on Rs. 12 each per month.
2 Bearers on Rs. 10 each per month.

Applied Mathematics Department.

1 Bearer on Rs. 12 per month.
1 Bearer on Rs. 11 per month.

Experimental Psychology Department.

1 Bearer on Rs. 12 per month.

RESOLVED—

That the appointments be confirmed.

Considered arrangements to be made for the publication of original papers.

RESOLVED—

That a Committee consisting of Sir Asutosh Mookerjee, Dr. P. C. Ray, Dr. Ganesh Prasad, Mr. C. V. Raman, Dr. P. C. Mitter and Dr. P. Brühl (Secretary) be appointed to draw up a scheme for the publication of original papers."

RESOLVED—

That the Proceedings be confirmed.

781. Read the following report of the Committee appointed to consider the question of recognition by the Calcutta University of the High School and Scholarship Examination of Burma:—

"We, the Members of the Committee appointed to consider the question of Recognition by the Calcutta University of the

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That a copy of the report be forwarded to Babu Radhakamal Mukerjee and that he be directed to forward another report at the end of three months, and that the payment of the sum of Rs. 800 be deferred pending further orders of the Syndicate on the subject.

788. Read a letter from the Honorary Secretary, Bengalee Regiment Committee, stating that among those who have joined the Bengalee Double Company and others who are anxious to join the new Double Company, there are under-graduates whose term of study is still to be completed, and enquiring (a) whether their absence on Military Service will be counted as attendance at class and (b) whether a supplementary Examination will be held for them in case the date of an ordinary examination comes too near to allow them sufficient time (after their return) for adequate preparation.

RESOLVED—

That the Honorary Secretary, Bengalee Regiment Committee, be informed that on his submitting individual cases with details, the Syndicate will consider such cases.

789. Read an application from Babu Panchanan Neogi, offering himself as a candidate for the Degree of Doctor of Philosophy.

RESOLVED—

That the theses be referred for examination to a Board of Examiners, consisting of the following gentlemen :—

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Dr. D. Thomson, M.A., B.Sc., Ph.D.
Mr. D. R. Bhandarkar, M.A.

790. Read an application from C. Jayaramachar, Head Master, Hospect Municipal School, who passed the B.A. Examination of the Madras University in 1915, who is now undergoing training for the L. T. Degree and who has been serving as a teacher for the last two years, requesting permission to appear at the M.A. Examination of this University in History in 1918 as a non-collegiate student.

RESOLVED—

That C. Jayaramachar be directed to make a fresh application early in 1918.

791. Read an endorsement from the Principal, Metropolitan Institution, forwarding, with his recommendation, an application

University of Calcutta

MINUTES

FOR THE YEAR

1917

PART III

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 23.

The 11th May, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESPRASAD SARVADHIKARI, C.I.E., B.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.), BARRISTER-AT-LAW.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
W. C. WORDSWORTH, ESQ., M.A.
REV. DR. W. S. URQUHART, M.A., D.PHIL.

1647. Read a letter from Lt.-Col. J. T. Calvert, I.M.S., Dean of the Faculty of Medicine, appointing Lt.-Col. B. H. Deare, I.M.S., to act as Member of the Syndicate in his place during his temporary absence from Calcutta.

ORDERED—

To be recorded.

1648. The Minutes of the Syndicate, dated the 16th March, 3rd April and 17th April, 1917, were read and confirmed.

1649. Read the Minutes of the Faculty of Science, dated the 22nd February, 1917.

ORDERED—

To be recorded.

1650. Read the Minutes of the Faculty of Medicine, dated the 5th January, 1917.

ORDERED—

To be recorded.

1660. Read the Proceedings of the Board of Studies in Botany, dated the 21st April, 1917.

ORDERED—

To be recorded.

1661. Read the Proceedings of the Board of Studies in Physiology, dated the 21st April, 1917.

ORDERED—

To be recorded.

1662. Read the Proceedings of the Board of Studies in Experimental Psychology, dated the 21st April, 1917.

ORDERED—

To be recorded.

1663. Read the Proceedings of the Board of Studies in Mathematics, dated the 21st April, 1917.

ORDERED—

To be recorded.

1664. Read the Proceedings of the Board of Studies in Geography, dated the 21st April, 1917.

ORDERED—

To be recorded.

1665. Read the Proceedings of the Board of Studies in Teaching, dated the 21st April, 1917.

ORDERED—

To be recorded.

1666. Read the Proceedings of the Board of Studies in Medicine, dated the 21st April, 1917.

ORDERED—

To be recorded.

1667. Read the following Proceedings of a joint meeting of the Governing Body of the Sir Taraknath Palit Trust and the Board of Management for the Sir Rashbehary Ghose Endowment, held on the 1st May, 1917 :—

"Read a letter from Mr. Kallynauth Mitter, C.I.E., Solicitor to the University, forwarding copy of the Counsel's opinion *re*.the mortgage of Fakiruddin and Kamerudin and requesting

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

To be recorded.

Read a letter from Mr. J. C. Banerjee, forwarding an estimate and the bill for repairing cracks of roof and arches in the Science College Building.

RESOLVED—

That the sum of Rs. 506 be paid to Mr. J. C. Banerjee for the repairs to the roof and arches of the Science College Building.

Read an application from Babu Praphullachandra Ghosh, who stood first in the first class at the last M. A. Examination in Chemistry and who has since been working as a Government research scholar in Chemistry at the Dacca College, praying that, in the circumstances mentioned, he may be granted a loan of Rs. 50 per month for three years out of the Sir T. N. Palit Endowment to enable him to carry on research in London with a view to obtain the D.Sc. degree of the London University, and enclosing a certificate from Dr. P. C. Ray and Dr. P. C. Mitter in support of his prayer.

RESOLVED—

That the consideration of the matter be postponed to the next meeting of the Governing Body.

Read a letter from Mr. C. V. Raman, M.A., stating that he has received official permission to take up the Palit Chair of Physics, and requesting to be informed whether the University is prepared to sanction the undermentioned concessions in his favour.

(*a*) House allowance of Rs. 250 per mensem in addition to the pay of the Chair, so long as a suitable residence is not provided;

(*b*) to declare that his position in relation to M. A. and M. Sc. teaching work would be the same as has been defined and accepted in case of Dr. Ganes Prasad, Sir Rashbehary Ghose Professor of Applied Mathematics;

(*c*) to formally appoint him as the Director of Sir T. N. Palit Physical Laboratory to supervise and control the Physics staff working in the Laboratory and also to be in sole executive charge of all Laboratory arrangements.

Also requesting that a grant of Rs. 5,000 may be placed at his disposal to enable him to arrange for the first setting of his research laboratory.

The University of Calcutta & Acharya P C Ray 1906-1944

RESOLVED—

That Mr. C. V. Raman be informed—

(*a*) that the Governing Body of Sir Taraknath Palit Endowment is prepared to recommend to the Senate that house allowance of Rs. 125 per mensem be sanctioned so long as a suitable residence is not provided for him as Palit Professor of Physics;

(*b*) that the Governing Body of the Sir Taraknath Palit Endowment are prepared to recommend that the duties of the Palit Professor of Physics be defined in accordance with the terms set out in the Trust Deed, namely—

(1) that he will devote himself to original research with a view to extending the bounds of knowledge in the domain of Physics;

(2) that he will stimulate and guide research by advanced students in Physics in the University College of Science and generally to assist such students in Post-Graduate study and research;

(3) to superintend the formation and maintenance of the Physical laboratory of the College of Science;

(*c*) that the Governing Body of the Sir Taraknath Palit Endowment find it impossible to deal with the point referred to in para. (*c*) of his letter before the return to India of Mr. Debendramohan Bose, the Sir Rashbehary Ghose Professor of Physics.

RESOLVED ALSO—

To include in the next budget the grant of Rs. 5,000 to be placed at the disposal of the Sir T. N. Palit Professor of Physics for the purpose of setting up his private laboratory in the College of Science.

Read a letter from Miss Rani Palit, stating that since the death of her grand-father, the late Sir T. N. Palit, she has not been paid her monthly allowance of Rs. 15 and that the amount of her annuity may henceforth be regularly paid.

RESOLVED—

That the amount of the annuity of Miss Rani Palit be paid regularly in monthly instalments of Rs. 15.

Read a letter from Mr. S. K. Mallik, Executor to the Estate of Sir T. N. Palit will, submitting an abstract of the account of the administration of the Estate.

RESOLVED—

That Mr. S. K. Mallik be asked for details of the account.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Read a joint letter from Dr. P. C. Ray, C. I. E., D. Sc., Ph. D., and Dr. P. C. Mitter, M. A., Ph. D., having reference to the award of a research scholarship to Nagendranath Sen, M. Sc., tenable at the University College of Science.

RESOLVED—

That a Sir Rashbehary Ghose research scholarship of Rs. 75 per mensem be awarded to Babu Nagendranath Sen, tenable at the University College of Science, with effect from the 1st of January, 1917.

RESOLVED—

That Messrs. Mukerjee and Sarkar be requested to prepare a detailed estimate of the urgent petty repairs, as also a detailed estimate of the thorough repairs of the building of No. 35, Ballyganj Circular Road, and that the urgent petty repairs be taken in hand at once."

RESOLVED—

That the Proceedings be confirmed.

1668. Read a letter from the Private Secretary to His Excellency the Governor of Bengal, forwarding letter No. 355, dated the 30th April, 1917, from the Assistant Secretary to the Government of India, Department of Education, requesting to be favoured with an early reply to Education Department letter No. 932, dated the 16th October, 1916, suggesting the earlier publication of the examination results by the Calcutta University in order that suitable residential accommodation may be provided for the students.

RESOLVED—

That the Registrar be authorised to draw up a reply to the Government of India.

1669. Read a letter from Babu Satischandra Ray, M.A., on the subject of the present system of re-examination of answer papers of candidates who fail only in one subject.

RESOLVED—

That the attention of Babu Satischandra Ray, be drawn to the provision of Section 7, Chapter XXXV of the Regulations.

1670. Read a letter from Mahamahopadhyay Dr. Ganganath Jha, expressin g his inability to accept his appointment as a member of the Board of Paper-setters in Hindi Composition for the B.A. Examination in 1918.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 32.

THE 4TH JULY, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SUBRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. W. HORNELL, M.A.
THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, C.I.E., B.A., M.D.
B. HEATON, ESQ.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.), BARRISTER-AT-LAW.
S. C. MAHALANOBIS, ESQ., B.SC., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
W. C. WORDSWORTH, ESQ., M.A.

2344. The Minutes of the Syndicate, dated the 9th February and 12th April, 1917, were read and confirmed.

2345. Considered the following report of the Board of Examiners for the B.Sc. Examination, 1917 :—

"From

The Board of Examiners for the B.Sc. Examination, 1917.

To

The Registrar, Calcutta University.

Senate House, the 30th June, 1917.

Sir,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the B.Sc. Examination held in March, 1917.

2381. Read an application from the Secretary, Gobindaganj H. E. School, which is provisionally recognised up to the 31st December, 1917, requesting that the school may be granted permanent recognition.

RESOLVED—

That the Director of Public Instruction, Bengal, be requested to favour the Syndicate with an expression of his opinion on the claims of the Gobindaganj H. E. School to permanent recognition.

2382. Read an application from the President, Carmichael College, Rangpur, requesting that the affiliation of the college may be extended in English up to the B.A. Honours standard with effect from the session 1917-18.

RESOLVED—

That the President, Carmichael College, Rangpur, be informed that the Syndicate could not recommend affiliation in English to the B.A. Honours standard upon the staff proposed by the college when it applied for affiliation and as a change in the staffing is now suggested, a fresh application setting out the proposed changes is necessary before the matter can be dealt with.

2383. The Registrar placed before the meeting for approval draft copies of certain forms, prepared by the Inspector of Colleges, to be filled in by the Heads of affiliated institutions.

RESOLVED—

That the consideration of the matter be postponed.

2384. The Registrar reported that Mr. C. V. Raman, M.A., had joined his appointment as Sir Taraknath Palit Professor of Physics on the afternoon of the 2nd July, 1917.

ORDERED—

To be reported to the Governing Body of the Sir Taraknath Palit Endowment.

2385. Read the following Report of Dr. P. C. Ray, in connection with an application from the Principal, City College, Calcutta, for affiliation of the College up to the B.Sc. standard (Pass) in Chemistry :—

The University of Calcutta & Acharya P.C.Ray 1906-1944

92, UPPER CIRCULAR ROAD,
CALCUTTA,
3rd July, 1917.

TO

THE REGISTRAR,
CALCUTTA UNIVERSITY.

SIR,

With reference to your letter No. 13196, dated the 30th June, I have the honour to inform you that I inspected the Chemical Department of the City College on the 2nd of July. I have the honour to submit the following report for the consideration of the Hon'ble the Vice-Chancellor and Syndicate.

The Chemistry staff of the college in the graduate stage is very strong and consists of Babu Dhirendranath Mukerjee, M.A. (Gold Medalist, 1907). Babu Pramathanath Sanyal, (M.A., Class II. 1907) and Babu Priyadaranjan Ray, M.A. (Gold Medalist, 1911).

The laboratory accommodation is as follows:—

Practical Chemistry	...	...	1 room 17′ × 39 —3″
Ditto.	...	...	1 „ 16′—9″ × 18′
Balance room	...	...	1 „ 17′ × 10′
Store room	.	...	1 „ 17′ × 10′

There is a fairly good library and the collection of chemicals and apparatus is sufficient.

There is a good supply of gas and water.

There is no fixed annual grant for the laboratory, but during the years 1911-16, the college authorities have spent over Rs. 30,000 for the Physics and Chemistry departments.

Taking the above into consideration, I have no hesitation in recommending that the college be affiliated in B.Sc. Pass Chemistry from the commencement of the session 1917-18.

I have the honour to be,
SIR,
Your most obedient servant,
P. C. RAY.

STAFF FOR THE CHEMISTRY COURSE.

Name.	*Qualifications and experience.*
Prof. Dhirendranath Mukerjee	M.A. in Chemistry, (Gold Medalist), 1907, with experience of 10 years.
„ Pramathanath Sanyal	.. M.A. in Chemistry, (Class II), 1907, with experience of 9 years.
„ Priyadaranjan Ray	. M.A. in Chemistry, (Gold Medalist), 1911, with experience of 4 years.
Mr. Debendranath Chatterjee	... B.A. (1908), with experience of 8 years in the City College. Demonstrator.
„ Surendranath Basu	... B.A. (1908), with experience of 8 years. „
„ Sushilkumar Chatterjee	... B.Sc. (1913), with experience of 4 years. „
„ Durgacharan Mitra	... B.Sc. (1913), with experience of 2 years in the City College. „

Periods of work per week.

Name.	B Sc. Lecture.		B.Sc. Practical.		Total for B.Sc.		I.Sc. Lecture.	Grand Total.	
	3rd-year.	4th-year.	3rd-year.	4th-year.	Thr.	Pr.		Thr.	Pr.
Prof. D. N. Mukerjee ...	2	2	...	6	4	6	9	13	6
„ P. R. Ray ...	2	2	6	6	4	12	...	4	12
„ P. N. Sanyal ...	2	2	6	...	4	6	6	10	6
Mr. D. C. Mitra ...	...	...	...	6	...	...	...	...	6

Practical work in the Intermediate Classes is looked after by the 4 demonstrators under the guidance of Prof. D. N. Mukerjee.

Read also the following report from the Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L., on the subject of the affiliation of the City College, Calcutta, in Mathematics, Pass and Honours, up to the B.Sc. standard :—

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

Sir,

I inspected the City College to-day in connection with the application of that Institution for affiliation up to the B.Sc. standard in Mathematics, Pass and Honours.

Joint or combined classes are held for students taking up the Course in Mathematics, Pass and Honours, for the B.A. and B.Sc. Examinations. The maximum strength of the classes in 1916 was as follows :—

	B.A.	B.Sc.	Total.
Third-year Class	58	23	81
Fourth-year Class	70	30	100

The Instructive Staff in Mathematics consists of the following gentlemen:—

Vice-Principal Kaliprasanna Chattoraj, M.A. in Mathematics, Class II, 1888.

Professor Nagendranath Swarnakar, M.A. in Mathematics, Class III, 1892. He was the first man of his year in Mathematics.

Professor Satischandra Chatterjee, M.A. in Mathematics, Class II, Group B, 1897. He passed the B.A. Examination with Honours in Mathematics and Physics and Chemistry.

The hours of teaching work allotted to the Professors last year, which will be continued next season, were as follows :—

	3rd-year Pass.	3rd-year Honours.	4th-year. Pass.	4th-year. Honours.	Tutorial help.	Intermediate classes.	Total.
Vice-Principal ...	2	2	2	2	3	2	13
Professor Swarnakar...	2	2	2	2	3	8	19
Professor Chatterjee...	2	2	2	2	3	8	19

The classes will be held in commodious rooms.

The Third-year Classes in Room No. IV measuring 35′ × 19′.

The Fourth-year Classes in room No. VIII measuring 30′—5″ × 42′—4″.

The Library contains a good collection of Mathematical books. Some new books and new editions of old books may profitably be purchased at a small cost.

The University of Calcutta & Acharya P.C.Ray 1906-1944

I understand that the college will be removed in November next to the spacious new buildings under construction at 102 and 102-1, Amherst Street.

Having regard to the standards usually followed, the arrangements appear to me to be adequate and I recommend that the college be affiliated up to the B.Sc. standard in Mathematics, both Pass and Honours.

I have, etc.,
MAHENDRANATH RAY.

The 3rd July, 1917.

RESOLVED—

That the Syndicate recommend to the Senate that the City College be affiliated in Chemistry to the B.Sc. Pass standard and in Mathematics to the B.Sc. Pass and Honours standards.

2386. Read a letter from the Hon'ble Mr. A. W. Bothom, I.C.S., Second Secretary to the Chief Commissioner of Assam, No. 4730, dated the 26th June, 1917, containing suggestions for changing the sanctioned staffing of the Murarichand College, Sylhet.

RESOLVED—

That it be pointed out to the Secretary to the Chief Commissioner of Assam that the Senate recommended and the Government of India granted extension of affiliation of the Murarichand College in History on the understanding, that, as far as possible, only a first class man would be appointed as Professor in the subject and that it is impossible now to vary the condition then accepted.

2387. Read an endorsement from the Officiating Principal, Scottish Churches College, Calcutta, forwarding, with his recommendation, an application supported by a medical certificate from Susilchandra Datta, a candidate at the last B.A. Examination, having English Honours as one of his subjects, who appeared at the Examination on the first two days only but who was taken seriously ill on the second day of the examination and could not continue to sit for the examination for the remaining days on account of serious illness, requesting permission to appear at the B.A. Examination in 1918 with Honours in English as a student of the Scottish Churches College, without being required to attend any further lectures.

RESOLVED—

That the application be granted.

2088. Read an endorsement from the Principal, Medical College, Calcutta, forwarding an application from Siddheswar Sen, who passed the last I.Sc. Examination of the Allahabad University with Zoology, Botany, Physics and Chemistry as

University of Calcutta

MINUTES

FOR THE YEAR

1917

PART IV

Calcutta

PRINTED AT THE CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 36.

THE 27TH JULY, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SUBIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

BABU HERAMBACHANDRA MAITRA, M.A.
DR. SURESPRASAD SARBADHIKARI, C.I.E., B.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.).
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
LT.-COL. J. T. CALVERT, M.B., M.R.C.P., D.P.H., I.M.S.
J. R. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
W. C. WORDSWORTH, ESQ., M.A.
REV. DR. W. S. URQUHART, M.A., D.PHIL.

2524. Read the Minutes of the Faculty of Law, dated the 11th July, 1917.

RESOLVED—

That the subjects, selected by the Faculty of Law for the Tagore Law Professorship for the year 1919, be published in the Gazette.

2525. Read the following Proceedings of the Board of Studies in English, dated the 18th July, 1917 :—

"The Board met to consider the question of reprinting Lahiri's Selections, Selections from Spectator, Selections from Wordsworth and Selections from Washington Irving's Sketch Book.

RESOLVED—

That it be recommended to the Syndicate that a revised edition of 10,000 copies of Lahiri's Selections be brought out,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Research Scholar in Chemistry at the Dacca College, praying that, in the circumstances mentioned, he may be granted a loan of Rs. 50 per mensem, for three years, out of the Sir T. N. Palit Endowment to enable him to carry on research in London with a view to obtain the D.Sc. Degree of the London University, and enclosing a certificate from Dr. P. C. Ray and Dr. P. C. Mitter in support of his prayer.

RESOLVED—

That a scholarship of Rs. 50 be granted to Babu Praphullachandra Ghosh in accordance with the term of the second trust deed of Sir T. N. Palit.

8. Read a letter from Babu Kallynauth Mitter, Solicitor, forwarding a copy of a letter from Messrs. Dutt and Son, having reference to the payment of the dues of the late Babu Syamacharan Biswas to the Sir T. N. Palit Estate.

The Registrar reported that the Solicitor had been informed that no further time can be allowed and that the amount due to the late Babu Syamacharan Biswas should be realised at once.

RESOLVED—

That the action taken be approved.

9. Read a letter from Babu Kallynauth Mitter, Solicitor, forwarding the original Account Book of Mr. S. K. Mallik.

RESOLVED—

That the accounts be accepted and that the legacies be paid on the usual indemnity bond.

10. The Secretary reported that out of the Sir T. N. Palit Endowment, a sum of Rs. 25,080 had been invested in 5% War Loan Stocks of the face value of Rs. 26,400.

RESOLVED—

That the action, taken, be approved.

1. The Secretary reported that Sir Rabindranath Tagore, Kt., had paid Rs. 30,200 being the principal and interest due by him to the Sir T. N. Palit Estate.

ORDERED—

To be recorded.

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 43.

THE 16TH OCTOBER, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair:*

THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
THE HON'BLE BABU BHUPENDRANATH BASU, M.A., B.L.
DR. SURESPRASAD SARBADHIKARI, C.I.E., B.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., Ph.D.
DR. BRAJENDRANATH SEAL, M.A., Ph.D.
S. C. MAHALANOBIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.
W. C. WORDSWORTH, ESQ., M.A.
BABU MANMATHANATH RAY, M.A., B.L
BABU CHARUCHANDRA BISWAS, M.A., B.L.

3871. The Registrar reported that, under Section 8 of Chapter IV of the Regulations, the Dean of the Faculty of Arts had appointed Professor Charuchandra Biswas, M.A., B.L., to act as a Member of the Syndicate during the temporary absence of Dr. Urquhart from Calcutta.

ORDERED—

To be recorded.

3872. The Registrar reported that, under Section 8 of Chapter IV of the Regulations, the Hon'ble the Vice-Chancellor had appointed Professor Brajendranath Seal, M.A., Ph.D., to act as a Member of the Syndicate during the temporary absence from Calcutta of Professor J. N. Das Gupta.

ORDERED—

To be recorded.

University of Calcutta

MINUTES

FOR THE YEAR

1917

PART VI

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

3918. Read an application from the Secretary, Chetla Boy's H.E. School, which is provisionally recognised up to 31st December, 1917, requesting that the school may be granted permanent recognition.

RESOLVED—

That the Director of Public Instruction, Bengal, be requested to authorise the Inspector of Schools, Presidency Division, to inspect the Chatla Boy's H.E. School and favour the Syndicate with an early report on the claims of the school to either permanent or continuance of provisional recognition.

3919. Read a letter from the Director of Public Instruction Burma, forwarding a copy of a report on the Baptist Collegiate School, Rangoon, from the Inspector of Schools, Meiktila Circle, in which it is stated that the Assistant Principal should confine his attention to supervision of the work in English of the whole school and should enter in detail the results of his inspection of teachers' note books with suggestions of improvement in the methods of teaching that the Head Master should devote his attention to supervision of the work in other subjects and that the teaching of certain subjects should be improved.

RESOLVED—

That the attention of the authorities of the Baptist Collegiate School, Rangoon, be drawn to the recommendations made by the Inspector of Schools.

3920. Read a letter from the Director of Public Instuction Bengal, in reply to this office letter No. 3101, dated the 26th September, 1917, regarding the affairs of the Swarnagram Radhanath High English School.

RESOLVED—

That the authorities of the Swarnagram Radhanath High English School be directed to take immediate steps to remove the present Head Master, Babu Pranhari Sen.

3921. Read a letter from the Under-Secretary to the Government of Bengal, forwarding, with reference to this Office letter No. 240, dated the 5th July, 1917, regarding the encroachment on the Corporation sewered drain of the St. Xavier's College Hostel, a copy of a letter No. 2206, dated the 20th September, 1917, from the Chairman of the Corporation of Calcutta, who states that the Corporation is ready to make over the Municipal drain adjoining 219, Lower Circular Road to Government free of rent for transfer to the Calcutta University subject to the undermentioned conditions, and

The University of Calcutta & Acharya P.C.Ray 1906-1944

(Under-Secretary) enquiring whether the Hon'ble the Vice-Chancellor and Syndicate agree to the conditions stated by the Corporation and will undertake to refund to Government any charges which may be payable to the Corporation by Government under condition (c) :—

(a) That the employees of the Corporation will be permitted to enter the hostel permises for inspection of the drain when necessary.

(b) That the land will be liable to resumption by the Corporation if it is at any time used for any other purpose.

(c) That the Corporation will retain the right to dismantle this boundary wall, if it is at any time necessary to do so in order to repair or clear the drain, the cost of dismantling and re-building the wall to be borne by Government.

Read also a note on the subject by the Consulting Engineers who are of opinion that the condition stated by the Corporation are reasonable and may be accepted by the Hon'ble the Vice-Chancellor and Syndicate.

RESOLVED—

That the conditions be accepted.

3922. Read a letter from the Vice-Principal, Carmichael College, Rungpur, on the subject of the extension of affiliation of the College, in Botany up to the Intermediate standard.

RESOLVED—

That the consideration of the matter be postponed.

3923. Read a letter from the University Inspector of Colleges, stating, with reference to this Office letter No.3445, dated the 8th October, 1917, in which he was asked to expedite the submission of his report on the subject of the opening of additional sections in the Ripon Law College, that as Dr. Dwarkanath Mitra, who was appointed to assist him in his inspection of the Ripon Law College, will not be able to do so before the holidays, he regrets his inability to submit the report at an early date.

ORDERED—

To be recorded.

3924. Read a letter from the Secretary, Dr. J. N. Datta Farewell Committee, offering to place at the disposal of the University 3½ per cent. G. P. Notes of the nominal value of Rs. 1,000 for the creation of an endowment for the annual award of a Silver Medal to be called "Dr. J. N. Datta Medal" to the student, who

The University of Calcutta & Acharya P C.Ray 1906-1944

stands First in Bacteriology and Pathology in the 2nd or Final M.B. Examination held in March or April on conditions stated therein, and requesting that the Hon'ble the Vice-Chancellor and Syndicate may be pleased to accept the offer.

RESOLVED—

That the offer be accepted.

3925. Read a letter from the Principal, Ripon College Calcutta, forwarding, in reply to this Office letter No. 2979, dated the 21st September, 1917, a statement showing the qualifications of Babu Jagadindu Ray, who has recently been appointed Demonstrator in Physics at the College, together with a list of his original paper and thesis, a few copies of his testimonials, and certain original papers written by him.

RESOLVED—

That the appointment of Babu Jagadindu Ray as Demonstrator in the Physics Department of the Ripon College be approved.

3926. Read a letter from Mr. D. R. Bhandarkar, Carmichael Professor of Ancient Indian History and Culture, forwarding a bill for Rs. 217-3-0, for travelling allowance from Poona to Calcutta and a bill for Rs. 169-12-8, for transport of personal effects.

RESOLVED—

That the amounts of the two bills be paid.

3927. Read a letter from Mr. S. K. Mullick, Executor to the State of the late Sir Taraknath Palit, suggesting that under Section 132 of the Probate and Administration Act, 6 per cent. is to be the rate of interest on Unpaid Legacies.

RESOLVED—

That interest at the rate of six per cent. be allowed.

3928. Read a letter from the Vice-Principal, Carmichael College, Rangpur, on the subject of creating Rangpur a centre for the I.A. and B.A. Examinations with effect from March, 1918.

RESOLVED—

That the consideration of the matter be postponed.

3929. Read a letter from Babu Nabinchandra Bardolai, reporting that he, with a few other gentlemen, started several private Coaching Classes in February, 1917, where boys are trained in different subjects on payment of certain fees, and enquiring whether under Section 2, Chapter XXX of the Regulations, students from the above-mentioned Coaching Classes may be allowed to appear at the Matriculation Examination in 1918 as private candidates subject to their satisfying a test held in any of the affiliated schools.

RESOLVED—

That Babu Nabinchandra Bardolai be informed that the University has no concern with Coaching Classes.

3930. Read the following report of the Board of Examiners for the M.A. Examination, 1917:—

"From

The Board of Examiners for the M.A. Examination, 1917.

To

The Registrar, Calcutta University.

Calcutta, the 12th October, 1917.

Sir,

We have the honour to submit, for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the M.A. Examination.

The number of candidates registered for the M.A. Examination in Latin was 1 who passed in the Second Class.

The number of candidates registered for the M.A. Examination in Sanskrit (E) was 1 who was placed in the First Class.

The number of candidates registered for the M.A. Examination in Physics was 1 who was placed in the First Class.

The number of candidates registered for the M.A. Examination in Chemistry was 1 who failed.

The number of candidates registered for the M.A. Examination in Botany was 1 who failed.

The Examination was conducted in accordance with the rules laid down in our letters of appointment.

We beg to recommend the undermentioned successful candidates who were placed in the First Class, as eligible for Government Scholarships:—

SANSKRIT (E).

FIRST CLASS.

1. Acharyya, Dhireschandra ... Non Collegiate Student.

PHYSICS.

FIRST CLASS.

1. Bhattacharyya, Krishnaprasanna ... Presidency College.

We have etc., etc.,

Sd. ASUTOSH MOOKERJEE *Chairman*,
" GANESH PRASAD.
" S. C. MAHALANOBIS.
" C. V. RAMAN.
" W. C. WORDWORTH.
" SAKALNARAYAN SHARMA.
" LAKSHMAN SHASTRI.
" J. C. GHOSH.
" P. C MITTER.
" P. C. RAY.
" SATISCHANDRA BIDYABHUSHAN.
" KALIPRASANNA BHATTACHARYYA.
" BAHUVALLABHA SHASTRI.
" S. C. BANERJEE.
" B. C. MAJUMDAR."

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the report be confirmed and the list of successful candidates published in the Gazette.

The undermentioned candidates are declared to have passed the M.A. Examination held in August 1917.—

ENGLISH, (GROUP A.)

FIRST CLASS.

(In order of merit.)

Ray, Kumudbandhu	...	Presidency College.
Ghosh, Jyotishchandra	..	Ditto.

SECOND CLASS.

(In order of merit.)

Dasvarma, Sachindralal	...	Non-Collegiate Student.
Ghosh, Brajendrakumar	...	Presidency College.
Guha, Kripeschandra	.	Non-Collegiate Student.
Ba Maw	.	Ditto.
Ray, Nripendranarayan	..	Presidency College.
,, Praphullanath	..	Dacca College.
Raha, Birendrakumar	.	Ditto.
Majumdar, Girijakanta	...	Presidency College.
Bandyopadhyay, Mohanlal	...	Ditto.
Dasgupta, Niradranjan	..	Ditto.
Abdur Rab Choudhury	.	University Student.
Gangopadhyay, Anilbhushan		Non-Collegiate Student.
Bandyopadhyay, Kirtishchandra	..	University Student.
Chakrabarti, Pramathanath	.	Dacca College.
Chattopadhyay, Amulyaratan	...	University Student.
Dasgupta, Kshitischandra	..	Presidency College.
Pal, Bankimchandra	.	University Student.
Sinha, Jogeschandra	...	Non-Collegiate Student.
Datta, Satyendrakumar	.	Presidency College.
Sengupta, Satindranath	.	University Student.
Das, Pabitranath		Presidency College.
Gangopadhyay, Srischandra	...	University Student.
Bandyopadhyay, Binodbihari	...	Ditto.
Mukhopadhyay, Dhirendranath	...	Presidency College.
Chaudhuri, Sisirkumar	..	Non-Collegiate Student.
S. S. Gopalakrishnan	...	Ditto.
V. Sayanna Sastri	..	Ditto.
Mandal, Nanilal	..	University Student.
Lahiri, Harischandra	..	Non-Collegiate Student.
Ghosh, Birajakanta	..	Dacca College.
Sengupta, Kantichandra	...	Presidency College.
Dasgupta, Narendranath	...	University Student.
Ghosh, Rajendrakumar	.	Non-Collegiate Student.
Chaudhuri, Durgakanta	..	Ditto.
Dasgupta, Jitendranath	..	Ditto.
Mukhopadhyay, Sanrindranath	..	Ditto.
Sarkar, Haridas	...	University Student.

THIRD CLASS.

(In order of merit.)

Bandyopadhyay, Prakaschandra	...	Non-Collegiate Student.
Chaudhuri, Durgapada	...	Presidency College
Thakur, Vidyananda	...	Non-Collegiate Student.

Datta, Abanibhushan	...	University Student
Ghosh, Sailendrakrishna	...	Ditto
V. Rangachari	...	Ditto
Sen, Bhutnath	...	Ditto
Chattopadhyay, Hiralal	...	Ditto
Sen, Dineranjan	...	Ditto
Ataul Hakim	...	Ditto

SECOND CLASS.

(*In order of merit.*)

Biswas, Hemantakumar	...	University Student
Pal, Dhirendrachandra	...	Non-Collegiate Student
Roychaudhuri, Manomohan	...	University Student
De, Jitendrachandra	...	Non-Collegiate Student
Kundu, Sudhansubhushan	...	University Student
Ghosh, Manindranath	...	Non-Collegiate Student
Pal, Harendrachandra	...	Ditto
Saha, Jogendranath	...	University Student
Chakraborti, Narendrachandra	...	Ditto

THIRD CLASS.

(*In order of merit.*)

Mukhopadhyay, Manilal	...	Non-Collegiate Student
Sen, Indrabhushan	...	Ditto
Pal, Nirmalchandra	...	University Student
Chattopadhyay, Panchudhan	...	Ditto
Munsi, Dineschandra	...	Ditto

MIXED MATHEMATICS.

FIRST CLASS.

(*In order of merit.*)

Chattopadhyay, Amalapada	...	Presidency College
Datta, Binodbihari	...	Ditto
Ray, Lalitkumar	...	Ditto

PHYSICS.

FIRST CLASS.

Bhattacharyya, Krishnaprasanna	...	Presidency College

3931. Read the following report of the Board of Examiners for the M.Sc. Examination, 1917:—

"From

The Board of Examiners for the M.Sc. Examination, 1917.

To

The Registrar, Calcutta University.

Calcutta, the 12th October, 1917.

Sir,

We have the honour to submit for the approval of the Hon'ble the Vice-Chancellor and Syndicate the results of the M.Sc. Examination.

The number of candidates in Physics was 26, of whom 16 passed, 7 failed and 3 were absent. Of the successful candidates, 6 were placed in the First Class, 9 in the Second and 1 in the Third.

The number of candidates in Chemistry was 22, of whom 12 passed, 7 failed and 3 were absent. Of the successful candidates, 2 were placed in the First Class 6 in the Second and 4 in the Third.

The number of candidates in Botany was 2, both of whom failed.

The number of candidates in Physiology was 2, both of whom passed. Of the successful candidates, 1 was placed in the Second Class, and 1 in the Third.

The number of candidates in Geology was 3 all of whom passed 1 in the Second Class and 2 in the Third.

The Number of candidates in Experimental Phychology was one, who was placed in the First Class.

The Examination has been conducted in accordance with the rules laid down for guidance in our letters of appointment.

We beg to recommend the undermentioned successful candidates, who were placed in the First Class, as eligible for Government Scholarships:—

PHYSICS.

FIRST CLASS.

(*In order of merit.*)

1.	Guha, Bhalanicharan ..	University student, Dacca.
2.	Mukhopadhyay, Haripraanna	Do
3.	Datta, Puranchandra ..	Do
4.	Chakrabarti, Brajendranath ..	Presidency College.
5.	Chaudhuri, Rabindranath ...	"
6.	Bandyopadhyay, Durgadas ...	"

CHEMISTRY.

FIRST CLASS.

(*In order of merit*)

1.	Guha, Praphullachandra ...	University student, Calcutta
2.	Mitra, Haraparbatikumar	Presidency College.

EXPERIMENTAL PSYCHOLOGY.

FIRST CLASS.

Basu, Girindrasekhar ... Non-collegiate student.

We have etc., etc

SD. ASUTOSH MOOKERJEE *Chairman*,
" GANESH PRASAD.
" S. C. MAHALANOBIS.
" C. V. RAMAN.
" J. C. GHOSH.
" P. C. MITTER.
" P. C. RAY.
" N. N. SENGUPTA.
" HEMCHANDRA DASGUPTA.
" S. C. BANERJEE.
" P. BRÜHL.
" BRAJENDRANATH SEAL.
" N. K. MAJUMDAR.
" E. VREDENBURGH.
" I. SRIIAMACHARI.
" G. C. BOSE."

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the report be confirmed and the list of successful candidates published in the Gazette.

The undermentioned candidates are declared to have passed the M.Sc. Examination held in August, 1917 :—

PURE MATHEMATICS.

FIRST CLASS.

(*In order of merit.*)

Ghosh, Mohitmohan	...	University Student, Calcutta
Das, Kameswar	...	Ditto
Ghosh, Nripendranath	...	Ditto
„ Satyacharan	...	Non-Collegiate Student
Bhattacharyya, Sureschandra	...	University Student, Calcutta
Mukhopadhyay, Charuchandra	...	Non-Collegiate Student.
Do, Haricharan	...	Ditto
Sensarkar, Suryyakanta	...	Ditto
Mukhopadhyay, Bijaykumar	...	University Student
Omdatul Islam	...	Non-Collegiate Student
Saha, Upendramohan	...	University Student, Calcutta
Ray, Sudhindranarayan	...	Ditto
Pal, Gopeswar	...	Ditto
Gangopadhyay, Prabhaschandra	...	Ditto
Mukhopadhyay, Lalitmohan	...	Ditto
Ghosh, Jaminikumar	...	Non-Collegiate Student
Jharkhandi, Sibanath	...	University Student, Calcutta

SECOND CLASS.

(*In order of merit.*)

Mukhopadhyay, Narayanchandra	...	University Student, Calcutta
Sen, Sarojkumar	...	Ditto
Dhar, Gobinlal	...	Ditto
Sengupta, Pramathanath	...	Ditto
Chakrabarti, Sushilkumar	...	Non-Collegiate Student
Das, Surathlal	...	Ditto
Syed Sultan Ahmed	...	Ditto
Biswas, Surendranath	...	Ditto
Das, Tejendranath	...	Ditto
Majumdar, Gokulkrishna	...	Ditto
Bandyopadhyay, Lalitmohan	...	University Student, Calcutta
Mitra, Nirmalchandra	...	Non-Collegiate Student

THIRD CLASS.

(*In order of merit.*)

Kundu, Sasadhar	...	University Student, Calcutta
Mukhopadhyay, Jyotishchandra	...	Non-Collegiate Student
Bandyopadhyay, Anurupchandra	...	University Student, Calcutta
Datta, Saratchandra	...	Non-Collegiate Student
Ghosh, Kumudbandhu	...	Ditto
Mukhopadhyay, Debnath	...	University Student, Calcutta

MIXED MATHEMATICS.

FIRST CLASS.

(*In order of merit*)

Das, Bhupendrachandra	...	Presidency College
Mukhopadhyay, Prankumar	...	Ditto
Chattopadhyay, Sarojkumar	...	Ditto

RESOLVED—

That the necessary action be taken with reference to the theses presented for the Onauthnath Deb Prize of 1917 and that the subject of the thesis for the Onauthnath Deb Prize for 1920 be published in the Gazette.

4191. Read the Proceedings of the Board of Studies in Law, dated the 1st December, 1917.

RESOLVED—

That the Proceedings be confirmed and action taken accordingly.

4192. The Syndicate proceeded to make the necessary recommendations to the Senate as to the constitution of the several Faculties for the year 1918.

RESOLVED—

That the Syndicate recommend to the Senate that the Faculties for the year 1918 be constituted as follows :—

FACULTY OF ARTS.

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D.
The Most Rev. George Alfred Lefroy, D.D.
The Hon'ble Mr. J. G. Cumming, C.S.I., C.I.E.
The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. R. Cunningham, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Mahamahopadhyay, Haraprasad Sastri, C.I.E, M.A.
The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Babu Herambachandra Maitra, M.A.
Babu Adharchandra Mukerjee, M.A., B.L.
Dr. H. Stephen, M.A., D.D.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Sir Nawab Syed Shams-ul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Bidyabhushan, M.A., Ph.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

F. C. Turner, Esq., M.A.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul Ulama Abu Nasr Md. Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A., F.S.S.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq., M.A.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Südmersen, Esq., B.A.
Babu Jaminibhushan Ray, Kaviratna, M.A., M.B.
Rev. Father F. X. Crohan, S. J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Dr. G. Howells, M.A., B.Litt., B.D., Ph.D.
C. J. Hamilton, Esq., M.A.
T. S. Sterling, Esq., M.A.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
Maulavi Muhammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Bukhsh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
T. T. Williams, Esq., B.Sc.
Babu Girischandra Mukerjee, M.A.
A. C. Datta, Esq., B.A.
Rev. W. E. S. Holland.
Rev. W. E. S. Urquhart, M.A., D. Phil.
Z. R. Zahid Suhrawardy, Esq., M.A., B.L.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
R. N. Gilchrist, Esq., M.A.
D. R. Bhandarkar, Esq., M.A.

FACULTY OF SCIENCE.

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. Suresprasad Sarbadhikari, C.I.E., B.A., M.D.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D
G. C. Bose, Esq., M.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.

The University of Calcutta & Acharya P C.Ray 1906-1944

Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. Bidhanchandra Ray, M.D., M.R.C.P., F.R.C.S.
Dr. P. C. Mitter, M.A., Ph.D.
D. B. Meek, Esq., M.A., B.Sc.

FACULTY OF LAW.

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D.
The Hon'ble Sir S. P. Sinha, Kt.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Sir Rashbehary Ghosh, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
The Hon'ble Justite Sir Nawab Syed Shams-ul Huda, K.C.I.E., M.A., B.L.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
S. Khuda Bukhsh, Esq., M.A., B.C.L.
Dr. Dwarkanath Mitter, M.A., D.L.
J. W. Langford James, Esq., M.A.
Z. R. Zahid Suhrawardy, Esq., M.A., B.L.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
The Hon'ble Mr. Justice W. E. Greaves.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1917.

No. 55.

THE 21ST DECEMBER, 1917.

Present:

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SURIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. C. WORDSWORTH, M.A.
THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
BABU HERAMBACHANDRA MAITRA, M.A.
B. HEATON, ESQ.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., Ph.D.
S.C. MAHALANOBIS, ESQ., B.Sc., F.R.S.E.
MAHAMAHOPADHAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. D. N. MALLIK, B.A., Sc.D., F.R.S.E.
J. R. BANERJEA, ESQ., M.A., B.L.

4420. The following Proceedings of the Board of Studies in Chemistry, dated the 25th July, 1917, were read and confirmed :—

"The Board met to recommend text-books in Chemistry for the I.A., I.Sc., B.A. and B.Sc. Examinations in 1920.

Considered the following books as to their suitability for adoption as text-books :—

Donnington—A class book of Chemistry, I-IV.
Sudborough and James—Practical Organic Chemistry.

RESOLVED—

That the consideration of these books be postponed. As the books were not circulated to the Members beforeha nd, the Board is of opinion that any book that is intended for its consideration should beforehand be circulated to the Members for their examination.

The Board next proceeded to recommend text-books in Chemistry for the I.A., I.Sc., B.A. and B.Sc. Examinations in 1920.

The University of Calcutta & Acharya P.C Ray 1906-1944

RESOLVED—

That the following books be recommended for the aforesaid Examinations in 1920.

I.A. & I.Sc. EXAMINATIONS.

CHEMISTRY.

W. A. Shenstone	...	Inorganic Chemistry.
Perkin and Lean	...	Introduction to the Study of Chemistry.
Donnington	...	Practical Exercises in Chemistry.
P. C. Ray	...	Elementary Inorganic Chemistry.
P. C. Ray	...	Practical Inorganic Chemistry.
Bailey	...	First Stage in Inorganic Chemistry.
Haridas Saha and Kumudnath Chaudhuri		A Course of Practical Chemistry for Intermediate Students.
D. N. Mukerjee	...	Elements of Inorganic Chemistry.

B.A. & B.Sc. EXAMINATIONS.

CHEMISTRY.

Pass Course.

Newth	...	Inorganic Chemistry.
Holleman	...	Organic Chemistry.
Francis Jones	...	Practical Chemistry.
Alexander Smith	...	General Inorganic Chemistry.
F. Mollwo Perkin	...	Qualitative Chemical Analysis—Organic and Inorganic.
J. B. Cohen	...	Theoretical Organic Chemistry.

Honours Course.

(In addition to the books recommended for the Pass Course.)

H. C. Jones	...	Elements of Physical Chemistry.
Ostwald	...	Foundations of Analytical Chemistry.
J. Wade	...	Introduction to the Study of Organic Quantitative Analysis.
Clowes and Coleman		Chemistry.
Cohen	...	Practical Organic Chemistry.
Caven and Landor	...	Systematic Inorganic Chemistry.
Ostwald	...	Outlines of General Chemistry.
J. Walker	...	Introduction to Physical Chemistry.
F. Mollwo Perkin	...	Practical Methods of Inorganic Chemistry.

N.B.—Candidates who take up Chemistry at the B.A. or B.Sc. Examination are recommended to refer to Saxelby's Practical Mathematics.

University of Calcutta

MINUTES

FOR THE YEAR

1917

PART VII

CALCUTTA UNIVERSITY PRESS

REPORT

of the

Syndicate for the year 1917

I

Constitution of Senate, Faculties, Syndicate, Boards of Studies and Board of Accounts.

THE SENATE.

CHANCELLOR.

His Excellency the Right Hon'ble Sir Frederic John Napier Thesiger, P.C., G.C.S.I., G.C.M.G., G.C.I.E., Baron Chelmsford.

RECTOR.

His Excellency the Right Hon'ble Lawrence John Lumley Dundas, G.C.I.E., Earl of Ronaldshay.

VICE-CHANCELLOR.

The Hon'ble Dr. Devaprasad Sarvadhikary, *Sarirtna, Vidyaratnakar*, C.I.E., M.A., L.L.D.

EX-OFFICIO FELLOWS.

The Hon'ble Sir Lancelot Sanderson, Kt., K.C., Chief Justice of Bengal.
The Most Rev. George Alfred Lefroy, D.D., Lord Bishop of Calcutta.
The Hon'ble Sir C. Sankaran Nair, Kt., B.A., LL.B.
The Hon'ble Mr. J. G. Cumming, C.S.I., C.I.E., B.A., I.C.S.
The Hon'ble Sir Henry Wheeler, K.C.I.E., C.S.I., I.C.S.
The Hon'ble Sir S. P. Sinha, Kt., Bar-at-Law.
The Hon'ble Mr. W. C. Wordsworth, M.A., Offg. Director of Public Instruction, Bengal.
S. W. Cocks, Esq., M.A., Director of Public Instruction, Burma.
The Hon'ble Mr. J. R. Cunningham, M.A., Director of Public Instruction, Assam.

ORDINARY FELLOWS.

Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Sir Rashbehary Ghose, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastravachaspati, Sumbuddhagama-Chakrabarti, Vidyarnab*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.

The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., L.M.S.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Babu Herambachandra Maitra, M.A.
The Hon'ble Babu Bhupendranath Basu, M.A., B.L.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Lt.-Col. R. Bird, C.I.E., M.D., M.S., D.P.H., F.R.C.S., I.M.S.
Dr. Kedarnath Das, M.D., C.I.E.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr Satischandra Vidyabhushan, M.A., Ph.D.
Babu Jnanchandra Ghosh, M.A.
F. C. Turner, Esq., M.A.
Sir Rajendra N. Mookerjee, K.C.I.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
D. N. Mallik, Esq., Sc.D., B.A., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Lt.-Col. J. T. Calvert, M.D., D.P.H., M.R.C.P., I.M.S.
G. Findlay Shirras, Esq., M.A., F.S.S.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Südmeraen, Esq., B.A.
Lt.-Col. B. R. Deare, M.B., D.P.H., M.R.C.P., I.M.S.
Babu Jaminibhushan Ray, *Kaviratna*, M.A., M.B.
Rev. Father F. X. Crohan, S. J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Dr. G. Howells, M.A., B.Litt., B.D., Ph.D.
C. J. Hamilton, Esq., M.A.
T. S. Sterling, Esq., M.A.
Rai Harinath Ghosh, Bahadur, M.D.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
T. H. Richardson, Esq., M.A., B.A.L., M.I.C.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Bukhsh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
The Hon'ble Surgeon-General W. R. Edwards.
T. T. Williams, Esq., B.Sc.
C. A. King, Esq., B.Sc., A.R.C.S.
Babu Girischandra Mukerjee, M.A.
H. A. Crouch, Esq., F.R.I.B.A.

FACULTIES.

The Faculties for the year 1917 were constituted as follows:—

FACULTY OF ARTS.

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastravachaspati Sambuddha-Gamt-Chakravarti*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D F.R.A.S., F.R.S.E., F.A.S.B.,—*Dean.*
The Hon'ble Dr. Devaprasad Sarvadhikary, C.I.E., M.A., LL.D.
The Most Rev. G. A. Lefroy, D.D.
The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. R. Cunningham, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Sir Rashbehary Ghose, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Herambachandra Maitra, Esq., M.A.
The Hon'ble Mr. Bhupendranath Basu, M.A., B.L.
Babu Adharchandra Mukerjee, M.A., B.L.
Dr. H. Stephen, M.A., D.D.
Dr. C. E. Cullis, Ph.D.
†The Hon'ble Mr. Madhusudan Das, C.I.E., M.A., B.L.
Dr. Brajendranath Seal, M.A., Ph.D.
‡V. H. Jackson, Esq., M.A.
Mr. G. C. Bose, M.A., B.C.S.
‡Rai Bhagabati Sahay, Bahadur, M.A., B.L.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shumsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
F. C. Turner, Esq., M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A.
Jnanranjan Banerjee, Esq., M.A., B.L.
Babu Hirajmohan Majumdar, M.A., B.L.
H. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
‡W. Owston Smith, Esq., M.A.
The Hon'ble Nawab Sayid Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Sidmersen, Esq., B.A.
Babu Jaminibhushan Ray, *Kabiratna*, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
C. J. Hamilton, Esq., M.A.
T. S. Sterling, Esq., M.A.

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* Retired under Section 4, Clause (2), of the Indian Universities Act, 1904, but has been re-appointed during the year.
† Retired under Section 4, Clause (2) of the Indian Universities Act, 1904 (VIII of 1904).
‡ Resigned.

Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
*Dr. K. S. Caldwell, Ph.D., F.I.C., F.C.S.
Maulavi Muhammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Baksh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
T. T. Williams, Esq., B.Sc., B.A.
Babu Girischandra Mookerjee, M.A.
*G. E. Fawcus, Esq., M.A.
*Debendranath Sen, Esq., M.A.
*Narendranath Ray, Esq., M.A.
Aparbachandra Datta, Esq., B.A.
Rev. W. K. S. Holland, M.A.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
*H. Lambert, Esq., M.A.
Mr. Z. R. Z. Suhrawardy, M.A., B.L.
Babu Manmathanath Ray, M.A., B.L.
„ Charuchandra Biswas, M.A., B.L.
Mr. R. N. Gilchrist, M.A.
Mr. D. R. Bhandarkar, M.A.

FACULTY OF SCIENCE.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.—*Dean.*
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. Sureshprasad Sarbadhikari, B.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Dr. Kedarnath Das, M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
*V. H. Jackson, Esq., M.A.
Mr. G. C. Bose, M.A., F.C.S.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
†C. W. Peake, Esq., M.A.
Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
‡S. W. Kemp, Esq., B.A.
*C. S. Middlemiss, Esq., B.A., F.G.S.
*Dr. K. S. Caldwell, B.Sc., Ph.D., F.I.C., F.C.S.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. Bidhanchandra Ray, B.A., M.D., F.R.C.S., M.R.C.P.
*H. Lambert, Esq., M.A.
Dr. Praphullachandra Mitter, M.A., Ph.D.
Mr. D. B. Meek, M.A., B.Sc.

Added Members.

Babu Surendrachandra Banerjee, M.A.
„ Chandrabhushan Bhaduri, B.A., F.C.S.
„ Hiberanchandra Bhattacharyya, M.A.
„ Hemchandra Dasgupta, M.A., F.G.S.
„ Kalidas Mallik, M.A.

FACULTY OF LAW.

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastravachaspati, Siromuddha-Gama-Chakravarti*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.—*Dean.*

*Resigned.
†Retired.
‡Retired under Section 4, Clause (2), of the Indian Universities Act, 1904.

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(10) BOARD OF STUDIES IN CHEMISTRY.

Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O., *President.*
Rai Upendranath Brahmachari, Bahadur. M.A., M.D., Ph.D
Mr. G. C. Bose, M.A.
Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
„ P. C Ray, C.I.E., D.Sc., Ph.D., F.C.S

well as the affiliated colleges fully realised the magnitude of the services which he had rendered to the University and the loss which his retirement involved."

Appointment of Inspector of Colleges.

The Senate at their Annual Meeting held on the 29th of January, 1917, appointed Mr. Jnanchandra Ghosh, M.A., University Inspector of Colleges subject to the approval of Government. The Government of India have since sanctioned his appointment, and Mr. Jnanchandra Ghosh joined his appointment in February last.

6

Sir T. Palit and Ghose Endowments.

Governing Body of the Sir T. N. Palit Endowment for 1917-18.

1. Hon'ble the Vice-Chancellor.
2. Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.
3. Hon'ble W. C. Wordsworth, M.A.
4. Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
5. B. Heaton, Esq.
6. Babu Ramendrasundar Trivedi, M.A.
7. Mr. H. C. Maitra, M.A.
8. Dr. P. Brühl, D.Sc., I.S.O.
9. Rev. Dr. W. S. Urquhart, M.A., D. Phil.
10. Hon'ble Sir S. P. Sinha, Kt.
11. Hon'ble Mr. Justice B. K. Mallik, I.C.S.
12. Hon'ble Dr. Nilratan Sarkar, M.A., M.D.
13. Professor C. V. Raman, M.A.

The Governing Body has resolved that the Buildings on the grounds at No. 35, Ballygunj Circular Road, be fitted up as a Biological Laboratory and Residental Quarters for the Professors and students in Botany and Zoology.

Board of Management of Sir Rashbehary Ghosh Endowment for 1917-18.

1. Hon'ble the Vice-Chancellor.
2. Hon'ble Sir Asutosh Mookerjee, Kt. C.S.I.
3. Hon'ble Mr. W. C. Wordsworth, M.A.
4. Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
5. B. Heaton, Esq.
6. G. C. Bose, Esq., M.A.
7. Dr. P. Brühl, D.Sc. I.S.O
8. Dr. Ganga Prasad, M.A., D.Sc.
9. Dr. P. C. Mitter, M.A., Ph.D.
10. Hon'ble Mr. M. N. Ray, C.I.E., M.A., B.L.
11. S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
12. J. R. Banerjee, Esq., M.A., B.L.

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COUNCIL OF POST-GRADUATE TEACHING IN SCIENCE, 1917-18.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *President*.
The Hon'ble Mr. W. W. Hornell, C.I.E., M.A.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. P. J. Brühl, D.Sc., F.G.S., F.C.S., I.S.O.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Jnanchandra Ghosh, M.A.
" Sailkumar Acharyya, M.Sc.
" Sudhansukumar Banerjee, M.Sc.
" Surendrachandra Banerjee, M.A.
" Jyotibhushan Bhaduri, M.A.
" Charuchandra Bhattacharyya, M.A.
" Nibaranchandra Bhattacharyya, M.A.
" Saratlal Biswas, M.Sc.
" Nalinimohan Basu, M.Sc.
" Satyendranath Basu, M.Sc.
Dr. C. E. Cullis, M.A., Ph.D.
Babu Saradaprasanna Das, M.A.
" Hemchandra Dasgupta, M.A., F.G.S.
" Bibhutibhushan Datta, M.Sc.
" Bidhubhushan Datta, M.A.
Dr. Rasiklal Datta, D.Sc.
" B. B. Dey, D.Sc., F.I.C.

Babu Jnanendranath Ghosh, M.Sc.
" Phanindranath Ghosh, M.Sc.
" Siteschandra Kar, M.A.
" Karunamay Khastagir, M.Sc.
Mr. P. C. Mahalanabis, B.A.
" S. C. Mahalanabis, B.Sc., F.R.S.E.
Babu Dwijendrakumar Majumdar, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Mr. D. B. Meek, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.
Babu Sisirkumar Mitra, M.Sc.
" Jnanendranath Mookerjee, M.Sc.
" Jogeschandra Mookerjee, M.A.
Mr. J. C. Nag, B.Sc.
Dr. Ganesh Prasad, M.A., D.Sc.
Prof. C. V. Raman, M.A.
Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.
Babu Abinaschandra Saha, M.Sc.
Babu Meghnad Saha, M.Sc.
Dr. Annkulchandra Sarkar, M.A., Ph.D., F.C.S.
Babu Pulinbihari Sarkar, M.Sc.
" Nikhilranjan Sen, M.A.
" Hemchandra Sengupta, M.A.
Mr. E Vredenburg, B.Sc., F.G.S.
Principal, Presidency College, Calcutta.
Rector, St. Xavier's College, Calcutta.
Principal, Scottish Churches College, Calcutta.
" Bangabasi College, Calcutta.
" Vidyasagar College, Calcutta.
" Ripon College, Calcutta.

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CHEMISTRY.

Babu Jyotibhushan Bhaduri, M.A.
„ Bidhubhushan Dattu, M.A.
Dr. Rasiklal Datta, D.Sc.
„ B. B. Dey, D.Sc.
Babu Jnanendrapath Ghosh, M.Sc.
Dr. P. C. Mitter, M.A., Ph.D.
Babu Jnanendranath Mookerjee. M.Sc.
Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S.
„ Anukulchandra Sarkar, M.A., Ph.D.
Babu Pulinbihari Sarkar, M.Sc.

***

CHEMISTRY.

Rai B. N. Das, Bahadur, M.A., B.Sc.
Mr. B. K. Singh, M.A , Ph.D.

BOARDS OF HIGHER STUDIES (SCIENCE), 1917-18.

(Arranged in alphabetical order.)

APPLIED MATHEMATICS.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., *Chairman.*
Babu Sudhansukumar Banerjee, M.Sc.
„ Nalinimohan Bose, M.Sc.

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CHEMISTRY.

Dr. P. C. Ray, C.I.E., Ph.D., D.Sc., F.C.S., *Chairman.*
Babu Jyotibhushan Bhaduri, M.A.
Dr. P. Brühl, D.Sc,. I.S.O., F.C.S., F.G.S.
Babu Bidhubhushan Datta, M.A .
Dr. Rasiklal Datta, D.Sc.
Dr. B. B. Dey, D.Sc.
Babu Jnanchandra Ghosh, M.A.
„ Jnanendranath Ghosh, M.Sc.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. C. Mitter, M.A., Ph.D.
Babu Jnanendranath Mookerjee, M.Sc.
Dr. Anukulchandra Sarkar, M.A., Ph.D.
Babu Pulinbihari Sarkar. M.Sc

BOTANY.

Mr. S. C. Mahalanobis, B.Sc., F.R.S.E., *Chairman.*
Babu Surendrachandra Banerjee, M.A.
Mr. G. C. Bose, M.A.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. C. Nag, B.Sc.

PHYSIOLOGY.

Mr. S. C. Mahalanobis, B.Sc , F.R.S.E., *Chairman.*
Babu Nibaranchandra Bhattacharyya, M.A.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.

GEOLOGY.

Babu Hemchandra Dasgupta, M.A., F.G.S., *Chairman.*
" Saratlal Biswas, M.Sc.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. E. Vredenburg, B.Sc., F.G.S.

University Professorships in Botany and Zoology.

On the recommendation of the Council and Executive Committee of the Post-Graduate Teaching in Science, the Senate have appointed Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., and Mr. S. Maulik, B.A. (Cantab.), F.E.S., University Professors in Botany and Zoology respectively. The Government of India have sanctioned the appointments for the resent for two years.

10

Reports by the Heads of the Departments of Post-Graduate Teaching.

Report on the work of the University classes in English during the year, 1917.

The Sixth-year Class of 1916-17.

At the beginning of the year the Sixth-year University Class numbered 132. The work of the class was conducted by Messrs. Mookerjee, Chatterjee, Datta, De, Maitra and Stephen.

Mr. Mookerjee taught *History of English Literature* (18th Century), Milton's *Early Poems* and Lowell's *Study Windows* to the Sixth-year Class. He also conducted tutorial work with a section of the class.

Principal Maitra lectured on Burke's *French Revolutions* and Carlyle's *Sartor Resartus.*

Mr. De gave a course of Lectures on the Anglo-Saxon and Middle English periods in the History of English Literature.

Mr. Chatterjee and Mr. Datta, conducted the work of the B course including Philology and readings in *Anglo-Saxon* and *Middle English* literature, and also *Chaucer* (for A course).

The untimely death of Mr. Roby Datta has been a cause of deep regret both to Professors and to students.

In the absence of Mr. Knox I took up, at the beginning of Session, 1916-17, the Elizabethian Dramatists (Paper VI) where Mr. Knox had left off, namely, at the end of the pre-Shakespearean writers, and dealt with Shakespeare and his younger contemporaries and successors. To cover this ground it was found necessary to hold the class optionally for two hours every Saturday from the Pobjah Holidays to the close of the session. This arrangement was found very satisfactory.

The University of Calcutta & Acharya P.C.Ray 1906-1944

second paper on Sommerfeld's treatment of the Diffration Problem is nearly ready for publication. I should also mention Mr. Nalinimohan Basu of the Applied Mathematics Branch, who worked in my laboratory for some time and has contributed an important paper to the Philosophical Magazine on the Diffraction of Light by a Cylinder of Large Radius. These and other activities of the new School of Physics at Calcutta have not failed to attract the attention and favourable notice of men of Science abroad, and I trust that next year, when I have had time to settle down to my work, even more gratifying results will be shown.

I feel it my duty to acknowledge here the assistance rendered by the authorities of the Sibpur Engineering College in giving facilities for our students to work in their laboratory for about 2 months during 1917.

C. V. RAMAN.

Report on the Department of Chemistry for 1917.

Seven students appeared in the last M.Sc. Examination of whom four came out successful. One of them, who submitted a thesis in his examination, obtained a First Class, the rest being placed in the 2nd Class. The result, we think, is quite satisfactory.

Owing to the war, chemically pure chemicals and apparatus could not be procured from Europe, and hence, both the laboratory work of the students and research work by the members of the staff and the scholars, suffered a good deal. In spite of these difficulties, however, the output of original work both as regards quality and quantity was quite good, as the following list of contributions to the learned societies would indicate:

1. On Zinc and Cadmium nitrites by Prof. P. C. Roy, (Published in the Journal of the Chemical Society),
2. Alkaloidal Derivatives of Mercuric nitrite by Prof. P. C. Ray. (J.C.S.)
3. Synthesis $\alpha\beta$ Thiocrotonic Acid by Prof. P. C. Ray, and Mr. Maniklal De. (J. C. S.)
4. Velocity of Decomposition and Dissociation constant of Nitrous acid by Prof. P. C. Ray, Mr. Maniklal De and Mr. Jnanendra Chandra Ghosh. (J. C. S.)
5. Mercury mercaptide nitrites and their reaction with alkyl iodides Part IV by Prof. P. C. Ray and Mr. Prafullachandra Guha (to be shortly published in J. C. S.)
6. Action of Phenylhydrazine on opionic, nitro-opionic and Phthalonic acids—some derivatives of hydrozo and azophthalides by Prof. P. C. Mitter and Mr. Jnanendranath Sen. (J. C. S.)
7. Discharge potential of ions on heated electrodes by Mr. Jnanendrachandra Ghosh. (Journal Physical Chemistry.)

8. On the abnormality of strong electrolytes Part I,—The electrical conductivity of aqueous solutions by Mr. Jnanendrachandra Ghosh. (J. C. S.)
9. The electrical conductivity of nonaqueous solutions by Mr. Jnanendrachandra Ghosh (To be shortly published in J. C. S.)

P. C. RAY.
P. C. MITTER.

Report on the working of the Department of Post-Graduate Teaching in Physiology, 1917-18.

Post-Graduate Teaching in Physiology, theoretical as well as practical, is conducted in the Physiological laboratory of the Presidency College under Professors S. C. Mahalanobis, B.Sc., F.R.S.E. and N. C. Bhattacharyya, M.A.

During the year under review advanced lectures have been given on special branches. A detailed syllabus of lectures, sufficiently elastic to admit of interpolation of records of recent advances, has now been printed for the guidance of the students. A high standard of the M.Sc. examination has constantly been held before the post-graduate workers, who have been made to realise the necessity of a wide range of study, including the history of the progress of Physiology. The students have been encouraged to write essays on problems of physiological interest, requiring a critical survey of the literature on the subject concerned. In this connection they received special guidance as to the books of reference that were to be consulted.

Particular stress has been laid on the practical side of the post-graduate teaching—The Physiological Laboratory of Presidency College, being provided with (1) an elaborate biochemical laboratory, (2) a histology room fitted with all modern equipment for microscopical work, (3) an optical and galvanometer room and (4) up-to-date recording apparatus and various appliances for psycho-physiological experiments, has been taken full advantage of, all available facilities for advanced work have been placed at the disposal of the post-graduate students and instruction has been given in the technique of experimental methods.

Two students appeared the last M.Sc. examination. Both of them passed—one being placed in the second class—the other in the third.

There are at present ten post-graduate students in this department; five in the fifth year and an equal number in the sixth year class.

S. C. MAHALANOBIS.
N. C. BHATTACHARYYA.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Report on the working of the Department of Post-Graduate Teaching in Botany.

Fifth-year 1917-18. (up to the first week of December, 1917).

The session commenced on the 6th August, 1917. Prof. Surendrachandra Banerji delivered twelve Lectures and also conducted twelve Laboratory periods.

The number of student in the Fifth-year Class is 9.

Prof. J. C. Nag delivered twelve Lectures and also conducted twelve Laboratory periods.

Sixth-year. 1917-18. (up to the first week of December, 1917).

Fourteen Lectures on Systematic Phanerogamic Botany have been delivered, and fourteen periods of Herbarium work conducted by Pr f. Surendrachandra Banerji.

Twenty-four Lectures on Comparative Anatomy and Lower Cryptogams, and twenty-four Laboratory periods were conducted by Prof. J. C. Nag.

Sixth-year 1917-18.

The number of students in the Sixth-year Class is 7.

J. C. NAG.
S. C. BANERJI.

II

Degrees of Doctor of Philosophy, Doctor of Medicine and Master of Law.

DOCTOR OF PHIOLSOPHY.

On the recommendation of the Board of Examiners, Babu Panchanan Niyogi, M.A., was declared eligible for admission to the Degree of Doctor of Philosophy, the thesis of his research being—"Iron in Ancient India," "Copper in Ancient India" and "Space Representation of Organic Ammonium Compounds,"

DOCTOR OF MEDICINE.

Doctor of Medicine.

On the recommendation of the Board of Examiners, Babu Harihar Gangopadhyay and Babu Amalkumar Raychaudhuri were declared eligible for admission to the Degree of Doctor of Medicine, the theses of their research being—"A clinical research on the New Hypnotics and their use" and "Filariasis," respectively.

MASTER OF LAW.

On the recommendation of the Board of Examiners, Babu Bijankumar Mukerjee, M.A., B.L. and Babu Basantajiban Ray, were declared eligible for admission to the Degree of Master of Law.

failed. Of the successful candidates, 32 were placed on the Pass list and 2 on the Honours list. Of the latter, 2 candidates obtained Honours in two subjects. Of those, who failed, 2 passed in Part I only and 24 passed in Part II only.

At the Preliminary Scientific M.B. Examination held in November, 1917, there were 55 candidates, of whom passed and failed.

At the First M.B. Examination held in November, 1917, there were 81 candidates, of whom passed, failed and were absent. Of the successful candidates, were allowed to sit for the Honours Examination, in two subjects and the other in three subjects.

At the Final M.B. Examinations, Part I and Part II, held in November, 1917, there were 52 candidates, of whom 45 appeared in Part I and 7 in Part II. Of the candidates, who appeared in Part I, * passed and failed. Of the candidates, who appeared in Part II, † passed and failed. Of the successful candidates, 1, was allowed to sit for the Honours Examination in one subject only.

At the Final M.B. Examination, Parts I and II, held in November, 1917, there were 61 candidates.

There were 6 candidates for the M.L. Examination in 1916, of whom 2 passed and 4 failed.

There were 6 candidates for the M.L. Examination in 1917.

UNIVERSITY EXAMINERS.

The undermentioned gentlemen conducted the University Examinations during the year :—

MATRICULATION EXAMINATION, 1917.

ENGLISH.

PAPER-SETTERS.

(*Including the Alternative Paper.*)

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Sambudhagama-Chakravarti, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.

Mr. T. S. Sterling, M.A.

J. N. Das Gupta, Esq., B.A. (Oxon.) Bar-at-Law.

(*To select passages in the Vernacular for translation into English.*)

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* candidates are declared to have passed the Final M.B. Examination, as they previously passed in Part II.

† candidates are declared to have passed the Final M.B. Examination, as they previously passed in Part I.

Rangoon College Centre.

Mr. E. M. Ward, B.A.
„ N. C. K. Aiyer, M.A.

Patna College Centre.

Mr. A. T. Bhattacharyya.
„ Purnachandra Mukerjee, M.A.

CHEMISTRY

Paper-Setters

Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Mr. Jatindranath Sen, M.A.
„ R. N. Sen, M.A.
Dr. P. C. Mitter, M.A., Ph.D.
Babu Ramendrasundar Trivedi, M.A.
Rev. Dr. J. Watt, M.A., D.D.
Dr. Anukulchandra Sarkar, M.A., Ph.D.

Examiners

Theoretical

Honours

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
„ K. S. Caldwell, B.Sc., Ph.D.
„ D. Thompson, Ph.D.
Panchanan Niyogi, M.A., Ph.D.

Pass.

Babu Kalidas Mallik, M.A.
„ Chunilal De, M.A.
Rai B. N. Das, Bahadur, M.A., B.Sc.
„ Chunilal Basu, Bahadur, M.B.

Practical.

Honours.

Civil Engineering College Centre.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., *Convener.*
Mr. R. N. Sen, M.A.
Dr. Rasiklal Datta, D.Sc.

Pass.

Dr P. C. Ray, C.I.E., D.Sc., Ph.D., *Convener.*

Presidency College Centre.

Dr. Bimanbihari De, D.Sc.
Mr. Gopimohan Sen, B.A.

Report on the working of the Department of Post-Graduate Teaching in Botany.

Fifth-year 1917-13. *(up to the first week of December, 1917).*

The session commenced on the 6th August, 1917. Prof. Surendrachandra Banerji delivered twelve Lectures and also conducted twelve Laboratory periods.

The number of student in the Fifth-year Class is 9.

Prof. J. C. Nag delivered twelve Lectures and also conducted twelve Laboratory periods.

Sixth-year. 1917-18. *(up to the first week of December, 1917).*

Fourteen Lectures on Systematic Phanerogamic Botany have been delivered, and fourteen periods of Herbarium work conducted by Prof. Surendrachandra Banerji.

Twenty-four Lectures on Comparative Anatomy and Lower Cryptogams, and twenty-four Laboratory periods were conducted by Prof. J. C. Nag.

Sixth-year 1917-18. The number of students in the Sixth-year Class is 7.

J. C. NAG.
S. C. BANERJI.

II

Degrees of Doctor of Philosophy, Doctor of Medicine and Master of Law.

DOCTOR OF PHIOLSOPHY.

On the recommendation of the Board of Examiners, Babu Panchanan Niyogi, M.A., was declared eligible for admission to the Degree of Doctor of Philosophy, the thesis of his research being—"Iron in Ancient India," "Copper in Ancient India" and "Space Representation of Organic Ammonium Compounds,"

DOCTOR OF MEDICINE.

Doctor of Medicine.

On the recommendation of the Board of Examiners, Babu Harihar Gangopadhyay and Babu Amalkumar Raychaudhuri were declared eligible for admission to the Degree of Doctor of Medicine, the theses of their research being—"A clinical research on the New Hypnotics and their use" and "Filariasis," respectively.

MASTER OF LAW.

On the recommendation of the Board of Examiners, Babu Bijankumar Mukerjee, M.A., B.L. and Babu Basantajiban Ray, were declared eligible for admission to the Degree of Master of Law.

The University of Calcutta & Acharya P.C.Ray 1906-1944

12

Tagore Law Professorship.

Appointment of Tagore Law Professor for 1918.

At a meeting of the Senate held in August, 1917, Babu Nagendranath Ghosh, M.A., B.L., was appointed Tagore Law Professor for 1918 to deliver a course of lectures on "Comparative Administrative Law, with special reference to the organization and legal position of the administrative authorities in British India."

Subjects of the Tagore Law Lecture for 1919.

The following subjects have been selected by the Faculty of Law, upon one of which the Tagore Law Professor for 1919 will be required to deliver a course of not ess than twelve lectures :—

(*i*) The Law of Pre-emption in British India.

(*ii*) The History of Hindu Law in the Vedic age and in the Post-Vedic times down to the Institutes of Manu.

(*iii*) Principles of Criminology, with special reference to their application in India.

13

Ramtanu Lahiri Research Fellowship.

Rai Saheb Dineschandra Sen, Ramtanu Lahiri Research Fellow, delivered a course of twelve lectures on "the Folk Literature of Bengal" during the year.

14

Bengal Council of Medical Registration.

Bengal Council of Medical Registration.

In pursuance of sub-rule (1) of rule 15 of the Rule for the election of Members of the Bengal Council of Medical Registration, under section 4, clauses (*c*) to (*f*), of the Bengal Medical Act, 1914, (Bengal Act VI of 1914), Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D., has been elected a Member of the said Council.

15

University Extension Lectures.

University Extension Lectures.

As stated in last year's Report, a series of Lectures has been organised, known, for the sake of convenience, as University Extension Lectures. These Lectures are mainly intended for advance

students of Affiliated Colleges but are open to members of the outside public interested in education and culture. An attempt has thus been made on a small scale to bring University and the Colleges closer together in this direction, the Lecturers being mostly Principals and Professors of Colleges. A number of eminent scholars has been invited to take part in the newly organised scheme by delivering a course of lectures on special subjects.

The following extension lectures were delivered in 1917 :—

Dr. Henry Stephen—"The Teaching of John Ruskin."
Prof. J. N. Das Gupta—"A Ligendary History of Alexander the Great."
Dr. D. N. Mallik—"Solar System of Ancient and Modern Astronomy."
Prof. J. C. Coyajee—"An Indian Kameralist."
Dr. Hiralal Haldar—"The Normal and the Spiritual World."
Prof. J. N. Das Gupta—"1813-1835; The beginnings of English Education in India."
Dr. Ganesh Prasad—"Poisson's equation and its failure"—1st Lecture.
Mr. J. R. Banerjea—"Browning."
Dr. Ganesh Prasad—"Poisson's equation and its failure"—2nd Lecture.
Principal Saradaranjan Ray—On "Poet Bhasa."
Prof. J. W. Holme—Spenser and Ariosto: a Renaissance Study.
Mr. Radhakamal Mookerjee—"Indian Economics."

EXTENSION LECTURES, 1917-18.

The following gentlemen have agreed to deliver lectures next year :—

Mr. J. R. Banerjea ...	On Burke.
Mr. J. N. Das Gupta ...	Bentinck and Vernacular Education in Bengal.
Professor Bhandarkar	*First Lecture* on Aryan Civilisation of Southern India and Ceylon—11th March, 1918. *Second Lecture* on the Political History—2nd week of January. *Third Lecture* on Administrative History of the period (650-315 B. C.)—4th week of January. *Fourth Lecture* on Social History of the period specified—last week of February.
Dr. D. N. Mallik	Subject to be announced hereafter.
Mr. Ramendrasundar Trivedi ...	Course of 6 or more lectures on the Vedic Sacrificial System—a study in Anthropology and Ethics—1st week of January—to be delivered weekly.
Mr. Saradaranjan Ray ..	Lectures on Bhasa.
Professor J. C. Coyajee ...	On the Balance of Trade of India during the War—any day in February.
Mr. Herambachandra Maitra ..	Subject to be announced hereafter.
Mr. Prasanta Mahalanabis ...	On "Science and Humanity."
Dr. H. Stephen	On "An Act of Will".
Mr. C. V. Raman	2 lectures, 1st February and 2nd March.

The first series of the University Extension Lectures has been published. The series contains the lectures on the following subjects :—

I Pursuit of Chemistry in Bengal—P. C. Ray.

II An Eighteenth Century Bengali Manuscript—J. N. Das Gupta.

LATIN

Dr. H. Stephen, M.A., D.D.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
" Father F. X. Crohan, S.J.
Mr. W. C. Wordsworth, M.A.

M.A. AND M.Sc. EXAMINATIONS, 1917.

***

CHEMISTRY.

Dr. P. C. Ray, C.I.E., Ph.D., D.Sc. F.C.S., *Convener.*
Babu Ramendrasundar Trivedi, M.A.
Dr. K. S. Caldwell, Ph.D., F.C.S.
Mr. B. K. Singh, B.A. (Cantab.)
Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.
Mr. Jyotibhushan Bhaduri, M.A.
Babu Chandrabhushan Bhaduri, B.A., F.C.S.
Dr. Bimanbihari De, M.A., D.Sc.
Babu Jnanendrachandra Ghosh, M.Sc.

PHYSIOLOGY.

Mr. S. C. Mahalanobis, B.Sc., F.R.S.E., *Convener.*
Mr. N. Bhattacharyya, M.A., B.L.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Major D. McCay, M.D., I.M.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

University of Calcutta

Minutes of the Senate

FOR THE YEAR

1918

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1918.

No. 1.

THE 12TH JANUARY, 1918.

Present:

The Hon'ble Dr. Devaprasad Sarvadhikary, Sariratna, Vidyaratnakar, C.I.E., M.A., LL.D.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., L.M.S.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Adharchandra Mukherjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S
Dr. H. Stephen, M.A., D.D.
Rai Dr. Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Sil, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Dasgupta, Esq., B.A. (Oxon.), Bar-at-Law.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Babu Jnanchandra Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A., F.S.S.
J. R. Banerjea, Esq., M.A. B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Bidhubhushan Goswami, M.A.
F. W. Södmerson, Esq., B.A.
Babu Jaminibhushan Ray, Kaviratna, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
S. Khuda Buksh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
Dr. Bidhanchandra Ray, M.D., M.R.C.P., F.R.C.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1918.

No. 2.

THE 26TH JANUARY, 1918.

Present:

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E. M.A., LL.D., *Vice-Chancellor, in the Chair.*

The Most Rev. George Alfred Lefroy, D.D.
The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. E. Cunningham, M.A.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., L.M.S.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Babu Hemendrachandra Maitra M.A.,
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Adharchandra Mukerjee, M.A. B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Rai Dr. Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S.C. Mahalanobis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., D.Sc., I.S.O., F.C.S. F.G.S.
Dr. P. C. Rey, C.I.E., D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Babu Jnanchandra Ghosh, M.A.
F. C. Turner, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
D. N. Mallik, Esq., B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A., F.S.S.
J. R. Banerjee, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.

On a ballot being taken the following votes were recorded :—

	Votes.
Professor J. R. Banerjea	40
Rev. Dr. W. S. Urquhart	34
Mr. Charuchandra Biswas	20
Principal G. C. Bose	18

Professor J. R. Banerjea and Rev. Dr. W. S. Urquhart were accordingly declared elected.

A ballot was then taken to elect the other two representatives from among the remaining candidates. The number of votes secured by each of them was as follows :—

	Votes.
The Hon'ble Dr. Nilratan Sircar ...	43
Principal G. C. Bose	27
Mr.Charuchandra Biswas ...	24
Mr. Z. R. Z. Suhrawardy	18

The Hon'ble Dr. Nilratan Sircar and Principal G. C. Bose were accordingly declared elected.

25. The Senate then proceeded to elect Members for the different Faculties for the year 1918-19 in accordance[with Section 2, Chapter III of the Regulations. A list containing the names of persons proposed by the Syndicate for election to the different Faculties as well as the additional names proposed by the Members of the Senate for the Faculties of Arts and Science had been previously circulated to all Members of the Senate.

The following are the names of persons proposed for election :—

FACULTY OF ARTS.

The Hon'ble Dr. Devaprasad Sarvadhikary, *Suriratna Vidyaratnakar*, C.I.E., M.A., L.L.D.
The Most Rev. G. A. Lefroy, D.D.
The Hon'ble Mr. J. G. Cumming, C.I.E., B.A., I.C.S.
The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. R. Cunningham, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastravachaspati, Sambudhagama-Chakrabarti*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D, F.R.A.S., F.R.S.E., F.A.S.B.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Herambachandra Maitra, Esq., M.A.
Babu Adharchandra Mukerjee, M.A., B.L.
Dr. H. Stephen, M.A., D.D.

The University of Calcutta & Acharya P.C Ray 1906-1944

Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
F. C. Turner, Esq., M.A.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A.
Jnanranjan Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur.
F. W. Südmersen, Esq., B.A.
Babu Jaminibhushan Ray, *Kabiratna*, M.A., M.B.
Rev. Father F. X. Croban, S. J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. G. Howells, M.A., B.D., Ph.D., B.Litt.
C. J. Hamilton, Esq., M.A.
T. S. Sterling, Esq., M.A.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
Maulavi Mahammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Buksh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
T. T. Williams, Esq., M.A., B.Sc.
Babu Girischandra Mukerjee, M.A.
Aparbachandra Datta, Esq., B.A.
Rev. W. E. S. Holland, M.A.
Rev. W. S. Urquhart, M.A., D.Phil.
Z. R. Z. Suhrawardy, Esq., M.A., B.L.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
R. N. Gilchrist, Esq., M.A.
D. R. Bhandarkar, Esq., M.A.

Additional names proposed—

Mr. Jnanchandra Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

FACULTY OF SCIENCE

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. Suresprasad Sarbadhikari, C.I.E., B.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Rai Dr. Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
G. C. Bose, Esq., M.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. Bidhanchandra Ray, M.D., M.R.C.P., F.R.C.S.
Dr. Praphullachandra Mitra, M.A., Ph.D.
D. B. Meek, Esq., M.A., B.Sc.

Additional names proposed—

Dr. Kedarnath Das, C.I.E., M.D.
Babu Jaminibhushan Ray, M.A., M.B.

***

Babu Charuchandra Biswas, M.A., B.L.
The Hon'ble Mr. Justice W. E. Greaves.

***

FACULTY OF ARTS

The Hon'ble Dr. Devaprasad Sarvadhikary, *Suriratna, Vidyaratnakar*, C.I.E., M.A., LL.D.
The Most Rev. G. A. Lefroy, D.D.
The Hon'ble Mr. J. G. Cumming, C.I.E., B.A., I.C.S.
The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. R. Cunningham, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastravachaspati, Sambuddhagama-Chakrabarti*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Herambachandra Maitra, Esq., M.A.
Babu Adharchandra Mukerjee, M.A., B.L.
Dr. H. Stephen, M.A., D.D.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.), Barrister-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D, F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Mr. Jnanchandra Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
F. C. Turner, Esq., M.A.
W. A. J. Archbold, Esq., M.A., LL.B.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A.
Jnanranjan Banerjea, Esq., M.A, B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri Khan Bahadur.
F. W. Südmersen, Esq., B.A.
Babu Jaminibhushan Ray, *Kaviratna*, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. G. Howells, M.A., B.D., Ph.D., B Litt.
C. J. Hamilton, Esq., M.A.
T. S. Sterling, Esq., M.A.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
Maulavi Mahammad Irfan, M.A.
T. O. D. Dunn, Esq., M.A.
S. Khuda Buksh, Esq., M.A., B.C.L.
W. E. Griffith, Esq., M.A.
T. T. Williams, Esq., M.A., B.Sc.

Babu Girischandra Mukerjee, M.A.
Apurbachandra Datta, Esq., B.A.
Rev. W. E. S. Holland, M.A.
Rev. W. S. Urquhart, M.A., D.Phil.
Z. R. Z. Suhrawardy, Esq., M.A., B.L.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
R. N. Gilchrist, Esq., M.A.
D. R. Bhandarkar, Esq., M.A.

FACULTY OF SCIENCE

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Dr. Kedarnath Das, C.I.E., M.D.
Rai Dr. Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
G. C. Bose, Esq., M.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Babu Jaminibhushan Ray, M.A., M.B.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. Bidhanchandra Ray, M.D., M.R.C.P., F.R.C.S.
Dr. Praphullachandra Mitra, M.A., Ph.D.
D. B. Meek, Esq., M.A., B.Sc.

***

Rai Kumudinikanta Banerji, Bahadur.
Khan Bahadur Maulavi Muhammad Ibrahim.
Babu Charuchandra Biswas.

The motion was duly seconded and carried.

Babu Charuchandra Biswas proposed that the Hon'ble **Dr. Nilratan Sircar** be the Chairman of the Committee.

The motion was seconded by a member of the Senate and, on being put to the vote, was carried.

It was agreed that four members should form a quorum.

52. Mr. J. N. Das Gupta moved, on behalf of the Syndicate, that the following graduates be permitted to appear at the M.A. Examination in 1918 as non-collegiate students in the subjects stated against their names:—

Name.	Year of passing the B.A. Examination.	Subject for the M.A. Examination.
Narendranath Sen ...	B.Sc. (1912,) B.A. English and Bengali, 1915.	History
Ram Prasad	B.A. 1897	Do.
Praphullakumar Roy ...	1913	English
Jatindranath Chatterjee ...	1914	Philosophy
Satischandra Mandal ...	1914	English
Kshirodkumar Ray ...	1915	Economics
Amalbhandra Banerjee ...	1912	English
Santoshkumar Rakshit ...	1914	Do.
Abhayacharan Chakrabarti...	1914	Sanskrit
Rameschandra Banerjee ...	M.A. in History, 1914 ...	English
Manomohan Banerjee ...	B.A. 1915	Philosophy
Purnachandra Chandra ...	1915	Do.
Kshitindranath Chatterjee ...	1915	English
Bindheswariprasad Sinha ...	1914	Do.
Satischandra Basu ...	1905	History
Radhabinod Adhikari ...	1914	Philosophy
Lalitmohan Laha ...	1914	Do.
Haripada Das ...	1912	Do.
Kumudmohan Ganguli ...	1902	Economics
Ramanath Bhattacharyya ...	1915	English
Harendrakrishna Bhattacharyya ...	1915	Philosophy
Annadaprasad Majumdar ...	1911	Economics
Srischandra Chatterjee ...	1915	English
Syamnarayan Verma ...	1913	Do.
Radhagobinda Ray ...	1914	Philosophy
Jitendrachandra Basu ...	1915	English
Jitendranath Ghosh ...	1915	Do.
Debendranath Ray ...	1915	History
Sasindramohan Sen ...	1915	Philosophy
Nagendranath Biswas ...	1915	English
Birendranath Basuray ...	M.A. in Economics 1915...	Do.
Bhima Raut ...	M.A. in Pure Mathematics, 1914, ...	Mixed Mathematics
Sachindramohan Ghosh ...	B.A. 1914	Philosophy.
Abanimohan Gupta ...	1914	History
Gobindrakrishna Banerjee ...	1915	English
Prabodhchandra Mukerjee ...	1915	Do.

Name.	Year of passing the B.A. Examination.	Subject for the M.A. Examination.
Jatindranath Chanda ...	1915	English
Mohinimohan Ray ...	1915	Economics
Bipinbihari Ray ...	1915	Do.
Dwijendranath ...	1915	Philosophy
Niranjan Chatterjee ...	M.A., English, 1915 ...	Do
Haripada Maulik ...	B.A., 1914	English
Sambhunath Banerji ...	1914	Do.
Rajendranath Sanmigrihy ...	1914	Pure Mathematics
Atindranath Mukherji ...	1915	English
Prabhaschandra Gupta ...	B.A. (Allahabad) 1915 ...	History
Jugal Behari ...	B.A. (Panjab) 1904 ...	Economics
K. Devanandhan ...	B.A. (Madras) 1906 ...	English
Nanigopal Mukerjee ...	M.A. in Philosophy with Theology and Ethics, 1914.	Philosophy with Logic and a special Branch of Indian Philosophy
Tulsicharan Basu ...	M.A. in Pure Mathematics, 1915.	Physics
Bireswar Bhattacharyya ...	M.A. (Panjab) Economics, 1913; History, 1914	Economics
G. Somanna ...	B.A. (Madras) 1902 ...	Sanskrit
Debendranath Niyogi ...	M A., Economics, (Gr. B), 1914	English (A)
Nandalal Biswas ...	1908	English
Jyotischandra Biswas ...	1908	Do.
Gholam Mohammad ...	1914	Do.
Haripraad Sur ...	1915	Do.
Jaygopal Datta ...	1915	Do.
Dhirendranath Mukherjee ...	1915	Do.
Praphullakumar Mukherjee ...	1918	Do.
Dhirendralal Chaudhuri ...	1915	Do.
Tarapada Ghosh ...	1915	History
Debendralal Raychaudhuri ...	1915	Do.r
Jatindranath Das ...	1913	Do.
Sarendrachandra Majumdar ...	1911	Do.
Rameschandra Raychaudhuri	1908	Do.
Mrinalbhushan Ghosh ...	1915	Do.
Binaylal Banerjee ...	1914	Do.
Bijaygopal Ghosh ...	1913	Do.
Hitendranath Pramanik ...	1915	Do.
Anilchandra Ray ...	1915	Philosophy
Ramchandra Ray ...	1915	Do.
Keshabchandra Das ...	1915	Do.
Baradaprasanna Munshi ...	1914	Do.
Harinarayan Raychaudhuri ...	1907	Do.
Sudhirchandra Mukherjee ...	1914	Do.
Haripada Das ...	1912	Do.
Srischandra Das ...	1915	Economics
Lalitmohan Das ...	1915	Do.
Bibhutibhushan Bhattacharyya	1915	English
Sripendranath Dhar ...	1913	Economics
Revatiballabh Mandal ...	1913	Do.
Sudhircharan Nag ...	1915	Do.
Haridas Bhattacharyya ...	1902	Pure Mathematics
Md. Nazir Ahmad ...	1908	Do.
Harendrachandra Pal ...	1914	Mixed Mathematics

The University of Calcutta & Acharya P C.Ray 1906-1944

Mr. J. R. Banerjea seconded the motion, which was carried.

53. **Dr. Suresprasad Sarbadhikari** moved, on behalf of the Syndicate, that the following candidates, who were graduates of this University, be permitted to appear at the M.Sc. Examination in 1918, as non-collegiate students in the subject stated against the name of each :—

Name.	Year of passing the B.Sc Examination.	Subject for the M.Sc. Examination.
Harendranath Sengupta ...	1915	Pure Mathematics
Banwarilal Saha ...	1915	Do.
Nityananda Chatterjee ...	1914	Do.
Krishnadas Bagchi ...	1915	Botany
Sripati Chatterjee ...	1914	Pure Mathematics
Dhirendranath Mookerjee ...	M.Sc. (1912) in Physics with Optics as his Special Subject.	Physics with Heat as his Special Subject.
Syamlal Mukerjee ...	B.Sc. (1911) ...	Chemistry
Chunilal Datta ...	B.Sc. (1911) ...	Do.

Dr, Satischandra Vidyabhushan seconded the motion, which was carried.

54. **Dr. Satischandra Vidyabhushan** moved, on behalf of the Syndicate, that the undermentioned candidates, who had passed the B.Sc. Examination, be permitted to appear at the B.A. Examination in 1918 as non-collegiate students in English and Vernacular Composition :—

Krishnaprasanna Haldar.
Abinaschandra Sil.
Bimanchandra Basu.

Mr. J. R. Banerjea seconded the motion, which was carried.

55. **Mr. J. N. Das Gupta** moved, on behalf of the Syndicate, that the undermentioned female students of the Diocesan College be permitted to appear at the I.A. or the B.A. Examination as non-collegiate students in the subject or subjects stated against their names, as the college was not affiliated in such subject or subjects :—

I.A. EXAMINATION.

Name.	Subject.
Hilda Bhajur	Botany
Lalita Bose	Do.
Lariam Khongwir	Do.
Asha Dutt	Do.
Binodini Dutt	Do.
Nirupama Gomes	Do.
Sukhamayi Lahiri	Do.
Icchavati Mahanti	Do.
Tara Nukholkar	Do.
Perina Nayak	Do.
Jessie Wright	French & Botany.

had fallen short of the prescribed minimum owing to illness or other unavoidable causes, be permitted to appear at the ensuing I.A. or I.Sc. Examination as non-collegiate students :—

Name.	Examination.	Subject.	Extent of deficiency.
Saileschandra Chakraberti ...	I.A.	Botany ...	9·56
Subodhchandra Roychaudhuri ...	I.Sc.	Chemistry ...	2·46
Debendramohan Lahiri ...	I.A.	Sanskrit ...	3·9
		Logic ...	8·1
Nilkantha Mukerjee ...	I.A.	Logic ...	6·6
Muhammad Ibrahim ...	I.A.	Logic ...	2·48
Susilkumar Saha ...	I.A.	English ...	3·7
		Logic ...	6·5
		Sanskrit ...	4·5
Dhirendrachandra Bardhan ...	I.A.	English ...	·96
Asutosh Bhattacharyya ...	I.A.	Sanskrit ...	6·3
Madhab Misra ...	I.A.	Logic ...	2·5
		Sanskrit ...	4·5
Kasipati Bhattacharyya ...	I.A.	Logic ...	4·5
Rameschandra Sarkar ...	I.A.	English ...	4·87
Phanibhushan Sarkar ...	I.A.	English ...	1·1
		History ...	·5
		Logic ...	3·2
Mahimaranjan Ray ...	I.A.	Logic ...	6·7
		Chemistry ...	5·7
Abdur Rahman Akanda ...	I.A.	Logic ...	5·89
		Chemistry ...	1·53

Name.	Examination.	Percentage of deficiency.	Cause of deficiency.
Pramodchandra Debbarma ...	I.A.	Logic 2·3, Sanskrit 4·5	Illness.
Pravatkumar Chatterjee ...	I.A.	History 10·6	Do.
Siddheswar Guha ...	I.A.	Logic 1·9, Chemistry 4·6	Do.
Sudhansukumar Maitra ...	I.A.	Logic 4·4, History 4·4	Do.
Mrigendranath Sen ...	I.A.	English 8·3, History 1·3	Do.
Mohammad Sajjad ...	I.A.	English 4·3, History 1·3	Do.
Sailendrachandra Banerjee ...	I.A.	History 3·1	Father's Illness.
Hemantakumar Bhattacharyya	I.A.	Mathematics 2·8	Illness and subsequent death of his mother.
Rabindralal Sinha ...	I.A.	English 1·3, Sanskrit 4·8, Logic 9·7, Chemistry 6·1	Illness.
Sahadeva Gupta ...	I.A.	English 5·3, Logic 1·5	Do.
Sureschandra Chatterjee ...	I.A.	Mathematics ·3, Chemistry 1·9	Do.
Kalipada Banerjee ...	I.A.	Sanskrit ·3, Chemistry 3·7	Do.
Gokulchandra Ghatak ...	I.A.	English 1·3, History 5·5	Do.
Sambhunath Ray ...	I.Sc.	Chemistry 3·0	Do.
Kanailal Chatterjee ...	I.Sc.	Chemistry 5·2	Do

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1918.

No. 5.

THE 1ST MARCH, 1918.

Present.

His Excellency the Right Hon'ble Lawrence John Lumley Dundas, Earl of Ronaldshay, G.C.I.E., *Rector, in the Chair.*

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D., *Vice-Chancellor.*

Ex-officio Fellows.

The Hon'ble Sir Lancelot Sanderson, Kt., K.C., M.A., LL.B., Chief Justice of Bengal.

The Hon'ble Sir Henry Wheeler, K.C.I.E., C.S.I., I.C.S.

The Hon'ble Mr. J.G. Cumming, C.S.I., C.I.E., I.C.S.

The Hon'ble Sir S. P. Sinha, Kt., Bar-at-Law.

The Hon'ble Mr. W.C. Wordsworth, M.A.

Honorary Fellows.

The Hon'ble Maharaja Sir Manindrachandra Nandi, K.C.I.E., of Cossimbazar.

Dr. P.K. Ray, D.Sc.

Nawab Sorajul Islam, Khan Bahadur, B.L.

Raja Pyarimohan Mookerjee, C.S.I., M.A., B.L.

I. C. Bose, Esq., M.A., B.L.

Rev. Father A. Nent, S.J.

Nawa A. F. M. Abdur Rahman, Khan Bahadur.

Sir J. C. Bose, Kt., C.S.I., C.I.E., M.A., D.Sc.

Nawabzada Ashrafuddin Ahmed, Khan Bahadur.

Rai Jogendrachandra Ghose, Bahadur, M.A., B.L.

Babu Ramcharan Mitra, C.I.E., M.A., B L.

J. S. Zemin, Esq.

Principal Ramendrasundar Trivedi, M.A.

Maulavi Abdul Karim, B.A.

Shams-ul-Ulama Ataur Rahman.
The Hon'ble Mr. W. H. Arden Wood, C.I.E., M.A., F.R.G.S.
Rai Jatindranath Chaudhuri, M.A., B.L.
Babu Dwarkanath Chakrabarti, M.A., B.L.
Jogen Chunder Dutt, Esq., M.A., B.L.
Babu Jyotiprasad Sarbadhikari, M.A., B.L.

Ordinary Fellows.

Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Sir Rashbehary Ghose, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., F.A.S.B.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., L.M.S.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Principal Herambachandra Maitra, M.A.
The Hon'ble Mr Bhupendranath Basu, M.A., B.L.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Professor Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Dr. Kedarnath Das, C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. C.E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
Principal G. C. Bose, M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.)
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc. Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Mr. Jnanchandra Ghosh, M.A.
F. C. Turner, Esq., M.A.
Sir R. N. Mookerjee, K.C.I.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Lt. Col. J. T. Calvert, M.B., D.P.H. M.R.C.P., I.M.S.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Syed Nawab Ali Chaudhuri, Khan Bahadur.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1918.

No. 6.

THE 2ND MARCH, 1918.

Present.

His Excellency the Right Hon'ble Lawrence John Lumley Dundas, Earl of Ronaldshay, G.C.I.E., *Rector, in the Chair.*

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D., *Vice-Chancellor.*

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Nawab Serajul Islam Khan Bahadur, B.L.

Raja Pyarimohun Mookerjee, C.S.I., M.A., B.L.

I. C. Bose, Esq., M.A., B.L.

Rev. Father A. Nout, S.J.

Nawab A. F. M. Abdur Rahman, Khan Bahadur.

Sir J. C. Bose, Kt., C.S.I., C.I.E., M.A., D.Sc.

Nawabzada Ashrafuddin Ahmed, Khan Bahadur.

Rai Jogendrachandra Ghose, Bahadur, M.A., B.L.

Babu Ramcharan Mitra, C.I.E., M.A., B.L.

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Mahamahopadhyay Hariprasad Sastri, C.I.E., M.A., F.A.S.B.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., L.M.S.
The Hon'ble Dr. Nilratan Sircar, M.A., M.D.
Principal Herambachandra Maitra, M.A.
The Hon'ble Mr Bhupendranath Basu, M.A., B.L.
Dr. Saraswatprasad Sarbadhikari, C.I.E., B.A., M.D.
Professor Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu Bahadur, M.B., F.C.S., I.S.O.
Dr. H. Stephen, M.A., D.D.
R. Heaton, Esq.
Dr. Kedarnath Das, C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. C.E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
Principal G. C. Bose, M.A.
J. N. Das Gupta, Esq., B.A. (Oxon.)
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc. Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D
Mr. Jnanchandra Ghosh, M.A.
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Rai Kamudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D
W. A. J. Archbold, Esq., M.A., LL.B.
Rai Saheb Dinesachandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Lt. Col. J. T. Calvert, M.B., D.P.H., M.R.C.P., I.M.S.
J. R. Banerjee, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A.
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Syed Nawab Ali Chaudhuri, Khan Bahadur.

portals you have passed, I shall follow your careers with keen sympathy, and an abiding interest.

Many of you no doubt appreciate already how much you owe to your University. You all appreciate, I am sure, the debt of gratitude which you owe to the Vice-Chancellor, who has presided over the work of the University throughout the greater part of the time which those whom I am addressing have spent within its walls. On your behalf, as on my own, I tender him our grateful thanks for the unflagging and self-sacrificing zeal with which he has dedicated his time and his talents to its service.

HIS EXCELLENCY THE RECTOR then called upon the Hon'ble the Vice-Chancellor to address the Convocation.

THE HON'BLE THE VICE-CHANCELLOR then addressed the Convocation as follows :—

MAY IT PLEASE YOUR EXCELLENCY, LADIES AND GENTLEMEN,

We are grateful to His Excellency the Rector for his kindly words of encouragement to our graduates and for the words of practical wisdom he has addressed to them regarding the scope of research, the place of English and our Vernaculars and Indian Philosophy in our educational polity, which makes my task this afternoon considerably easy. But before proceeding to its discharge, I invite you to join me in according hearty congratulations to our newly admitted Doctors in the various faculties, who have won coveted honors by patient work and painstaking research.

The University of Calcutta & Acharya P.C.Ray 1906-1944

physical and chemical laboratories have been mostly fitted up. Diligent and devoted students, professors and research men are doing their every day work and are drawing recruits even from outside Bengal.

It is hoped that Dr. Cullis, our new Hardinge Professor of Mathematics, will succeed in establishing a school of research in the special branch of Mathematics in which he is interested, and in which there is a very wide field for original work.

The number of lecturers in Applied Post-graduate Mathematics has also increased and provision is now made for teaching all subjects of the syllabus. Here also several of our lecturers have done valuable research. Dr. Ganesh Prasad has been devoting himself whole-heartedly to its prosecution. His stimulating guidance has resulted in the production of much good work and many brilliant M.A.'s and M.Sc.'s are carrying on important investigations under him.

In the department of Chemistry the work has been considerably handicapped by the practical stoppage of the supply of chemicals and apparatus from Europe

Inspite of these difficulties the output of original work both as regards quality and quantity has been quite good, as the long list of contributions to the journals of learned societies indicates.

Dr. P. C. Ray is investigating the tautomeric changes in organic sulphur compounds; Dr. P. C. Mitter is investigating the same type of changes in ortho-substituted aldehydes. Interesting work on halogenation, nitration and replacement of radicals which has drawn considerable attention, is being continued by one of the professors. In the

department of Physical Chemistry, some very interesting results have been obtained in the course of investigations of the conductivity of strong electrolytes.

Up-to-date apparatus for psycho-physiological experiments has been recently provided and this has placed our department of Physiology, as well as Experimental Psychology, on a sure footing.

Professors have been appointed in Zoology and Botany, who will begin their work as soon as possible. And the Palit residence at Balliganj, which has been recovered as the result of a successful but tedious litigation, is being adapted for the purpose.

Substantial work has been done in the Physics Department. Professor C. V. Raman took charge of his duties in July last and has since been busily engaged in developing a school of research in Physics, and in organizing the Laboratory for practical work of M.Sc. students. Various investigations dealing with different branches of the science have been carried on by the Professor and his colleagues and the researchers working under him. Sixteen original papers and communications were issued during the year, most of which have been published or accepted for publication in the leading scientific journals of Europe and America. Three men from other parts of India have recently worked in Professor Raman's Laboratory and there is great promise, indeed, in this department of our activities. Mr. Raman has already laid the foundation of an excellent Physics Society.

Extension and other Lectures

Our Extension Lectures continue to be useful and popular. If properly developed they are destined to play an important part in the progress of culture as well as research. Several of the third series have been delivered already and attracted large and appreciative audience. They come mostly from our advanced students and from those who have just left the University. There is always a fair sprinkling of Professors, as well as members of the public, interested in advancement of culture. To bring together such elements is the object of these lectures and it is a matter of encouragement that the object has been so far achieved. Professors Stephen, Brajendranath Seal, C. V. Raman, D. N. Mallik, Ganesh Prasad, J. N. Das Gupta, J. R. Banerjea, Bagchi Prabhudutt Sastri, and many others are taking part in this series.

A special feature of this year's work is that the Principal of one of our largest Arts Colleges, Mr. Ramendrasundar Trivedi, has begun a series of highly interesting and informing lectures on *Vedic ceremonies*, to which I have already referred and which throw considerable light on the manners and customs of the age, as well as on historical events that have not been hitherto presented in a clear perspective.

Owing to uncertainty of the situation and in ignorance as to which of our long-appointed Readers will be prepared to lecture and when, it has not been possible to appoint any more Readers of late. With regard to one undoubted vacancy, enquiries are being

made about the most suitable way of filling it up. Though a Travelling Fellowship has long been in contemplation, financial considerations, as well as difficulties in the way of travelling to good purpose, has made us hesitate to give present effect to this provision. When the War ends, these travelling fellowships in proper hands will be a source of strength to the newly modelled University.

ACADEMIC ATMOSPHERE

Before we have made any attempt for revising hitherto prevailing academic ideals and are even embarked on our bread earning ventures, the charge against us is of gross and unalloyed utilitarianism.

While we are justly anxious to lay stress on the utilitarian branch of our work, the purely academic point of view has by no means been lost sight of. Work such as Professors Brajendranath Seal, Cullis, Raman, and Ganesh Prasad and Mahamahopadhyay Haraprasad Sastri and Rai Saheb Dineschandra Sen are engaged in, is not directed merely towards advancement of learning, according to our motto. They are distinct efforts towards advancement of knowledge. The recent visits of Sir Jagadishchandra Bose to Bombay and of Dr. P. C. Ray to Madras must have brought home to the most obtuse, that, at least, the intellectual influence of Bengal, over the rest of the Indian Empire has not yet disappeared. It is not likely to disappear soon, if only you all will combine and agree to keep the flag flying. Whether Sir Jagadischandra Bose earned fifty thousand rupees for his Institute by a single lecture or whether Dr. P. C. Ray earned

The University of Calcutta & Acharya P.C.Ray 1906-1944

less than a fiftieth of it, which he presented for the Scientific Advancement of Madras, are in themselves, not matters of much moment, though they are highly significant as facts, tending to important developments.

The point for congratulation is that our scholars and men of science are steadily securing for their work recognition beyond the province, nay India. A Bengali scholar was recently invited by the Punjab University to lecture on Economics, another has been requisitioned for Ceylon, a third is in charge of the History Chair of the Mysore University and a fourth of a similar Chair in Benares. Another Bengali scholar is in charge of important Archaeological work in Bombay and many more in lesser positions of responsibility might be named.

Sir Jagadishchandra Bose's work to which Your Excellency has given so just a prominence is just receiving full recognition, after twenty one years of struggle. The establishment of the Bose Research Institute, as a result of his own generosity, the generosity of the Government and of public-spirited donors in Bengal and Bombay, is a big academic event, without which no chronicle of University activity for the year, would be complete. It is University activity in the real sense, to which I drew attention last year and it is a matter of congratulation that this larger University keeps on growing. This growth is a distinct step forward towards regaining India's place in the work of advancement of the world's knowledge, which was preeminently India's, till recent blocks

and breakdowns barred the way. It must be highly satisfactory that we no longer merely imitate the West, without having anything to give.

Sir Jagadischandra has, in all earnestness, assured us that the lectures at his Institute will not be mere repetitions of second-hand knowledge, but will announce new discoveries, which will be public property and not be protected by patents. Science College results, also, will be similarly at public service, through recognised Science Magazines, as well as a special Journal that is intended soon to start. Desecration of knowledge for personal gain will be at a discount and at the same time facilities to workers from all countries will be furnished at all these temples of learning, as was India's glorious privilege at her not very ancient Universities.

It is notable how men of business in Bombay have translated their appreciation of Sir Jagadis's service to Science into generous contributions, that will largely help pursuit of knowledge for the sake of knowledge. India is struggling for recognition of her place in the Empire and in the larger world. Workers like Sir Jagadis, Dr. Brajendranath Seal, Dr. P. C. Ray, Mr. Raman, Mr. Bhandarkar and Dr. Ganesh Prasad and their co-adjutors, some only of whom we have got so far, must help us in winning this place and retaining it.

The older spirit of India is, thus, by no means obsolete in the higher academic atmosphere. Calcutta as a seat of Science will not long have to dread the competition of its Southern rival, with princely backing, nor of salubrious Northern hills,

enjoying high and exclusive Government countenance. A second Nobell Prize may not be long in drifting Eastward.

Though it is difficult yet to assess its relative value, it would be equally difficult to deny that a distinct intellectual movement has been set on foot, and an intellectual atmosphere has been created, which cannot help having considerable possibilities. While we cannot be too rigorous in our standard of research, it would be a mistake to shut our eyes to and not to nurse hitherto isolated attempts for search of truth, not exactly on trodden or orthodox lines. The movement would prosper better, if efforts were for the present, confined to collection and elucidation of facts and if judgment and conclusion was stayed till facts were fuller and clearer. To theorise first and to look for evidence later, is a travesty of research not unknown elsewhere; but is to be deprecated and avoided all the same. Though it is premature, nay inexpedient, to claim "Schools," it is permissible to claim that a fair beginning has been made for the foundation of what in time may blossom into schools. In our department of History, for example, it is not merely dates and chronology that we are concerning ourselves with; but history of movements, of thoughts, of ideas and of institutions, is alike engaging our attention, in addition of course to routine work of the hitherto prevailing type. Teaching must not suffer because of research, nor research because of the needs of teaching. From the merely historical standpoint our seekers are trying to point out Indian contribution

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1918

No. 4.

THE 9TH MARCH, 1918.

Present:

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

The Hon'ble Mr. W. C. Wordsworth, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph D
Sir Rashbehary Ghosh, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
Babu Herambachandra Maitra, M.A.
Babu Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Dr. H. Stephen, M.A., D.D.
G. C. Bose, Esq., M.A.
J. N. Das Gupta, Esq., B.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
P. J. Brühl, Esq., D.Sc., I.S.O., F.C.S. F.G.S.
The Hon'ble Justice Nawab Sir Syed Shams-ul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Rai Saheb Dineschandra Sen, B.A.,
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
F. W. Südmersen, Esq., B.A.
Rev. Father F. X. Crohan, S. J.
Dr. Hiralal Haldar, M.A., Ph.D.
Dr. G. Howells, M.A., B.Litt., B.D., Ph.D.
T. S. Sterling, Esq., M.A.
T. O. D. Dunn, Esq., M.A.
W. E. Griffith, Esq., M.A.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Dr. Dwarkanath Mitra, M.A., D.L.
Rev. W. E. S. Urquhart, M.A., D.Phil
Z. R. Zahid Suhrawardy, Esq., M.A., B.Ia,
Dr. P. C Mitter, M.A., Ph.D
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
R. N. Gilchrist, Esq., M.A.
The Hon'ble Mr. Justice W. E. Greaves.

68. **Sir Gooroo Dass Banerjee** moved that the Hon'ble Nawab Sir Syed Shams-ul Huda, Rai Chunilal Basu, Bahadur, Dr. Brajendranath Seal and Mr. J. N. Das Gupta be appointed members of the Committee appointed by the Senate on the 9th

Honours students, he would remind the Senate of the fact that the Syndicate had removed the inconvenience to some extent; some still remained. There should be, as far as possible, perfect uniformity of standard. They did not require Pass students to come to Calcutta. But those who wished to appear for the highest University examination would have to do so. They had in the case of the great majority of students eliminated the hardships and inconvenience which had been indicated in the course of the debate. The minority, those who took up the Honours course, could not be granted the same facilities as those who were content to take the Pass course. The Honours students would have to come to Calcutta for their examination, so that there might be perfect uniformity.

Principal G. C. Bose said that if the motion had been in the form that students of a college in science subjects should be examined in the laboratories of that college, he would have had great pleasure in supporting it. He quite appreciated the difficulties that the boys had to undergo. They had to handle apparatus and work in environments with which they were not familiar. He could not support the motion as it stood, but the Senate might bear this fact in mind in reference to the system of examination of students in laboratories other than their own.

Sir Asutosh Mookerjee: I had decided not to speak upon this motion for reasons that I am not free to disclose at the present moment. But I think that we ought not to rush this motion through at the present sitting. The question has not been approached, I feel, from the right point of view. Mr. Südmersen has put the motion from the point of view of the mofussil colleges. And if I am permitted to criticise the motion, the reason assigned is one which may be open to objection. Are the mofussil students alone to be encouraged to take the Honours course in science subjects? I hope that is not true, and that Mr. Südmersen is prepared to take a wider view than the interests of his own college, or the provincial colleges in general. The question is not free from difficulties. One view may be urged with a great deal of force. Is our Honours examination conducted on proper lines? Is it not possible to take the view that Honours ought to be granted substantially on a reliable record of the work done by the student during the period of his study in the college, supplemented by a short experimental test? Is not our system entirely wrong, when we take practically no account of the work done by the student during the whole two years of his career in the college, and rely nearly entirely upon the result of four written and two practical papers, as they are

The University of Calcutta & Acharya P.C.Ray 1906-1944

called? And we feel so confident as to the accuracy of the system that we give the first place to a man who has got 241 marks, and second place to a man who has got 240 marks, or deprive a man of Honours whose place is just below the dividing line. My own feeling is that the question requires to be probed far more thoroughly than has been done. The question was referred to a committee of experts, and their opinion was divided. I should be very pleased to read the divided verdict, and I would suggest that the subject be referred to a small committee of the Senate consisting of five members. The committee may go into the wider question, namely, how students should be treated in respect to Honours examination, both in Calcutta and the mofussil. And I hope the committee might just broaden their views and consider whether some consideration might not be shown to students who had the misfortune of taking up subjects other than science subjects. I therefore suggest that this matter be referred to a committee of five, and I hope the committee will be able to discover some method which will make the Honours examination a far more satisfactory test than it is at present. I daresay Mr. Südmersen may raise the objection that we are keeping him out of the desired goal for this year; but by the time the examination of 1919 takes place, many changes may have taken place.

Dr. Dwarkanath Mitra seconded the motion.

The Hon'ble Dr. G. Howells said that the general trend of the discussion was that there was something required to be done and some relief given. There were several other items that required consideration in this connection, and if the Syndicate gave some sort of relief this year, and the larger problem were dealt by the committee as suggested, it seemed to him that it would meet both views. He would therefore, like to see both proposals carried.

Mr, Sudmersen in reply, said that he was totally unwilling for this matter to be postponed.

The motion for the appointment of a committee was put to the vote and carried.

Sir Asutosh Mookerjee proposed that the following gentlemen be appointed members of the committee:—

The Hon'ble Mr. W. C. Wordsworth.
Dr. Brajendranath Seal.
Rai Kumudinikanta Banerji, Bahadur.
Dr. P. C. Ray.
Mr. D. B. Meek.

Principal G C. Bose seconded the motion, which was carried.

Sir Asutosh Mookerjee proposed the Hon'ble Mr. W. C. Wordsworth to be the Chairman of the Committee.

Babu Jaminibhushan Ray seconded the motion, which was carried.

It was agreed that three members should form a quorum.

(Confirmed.)

DEVAPRASAD SARVADHIKARY, *Vice-Chancellor.*

P. BRÜHL, *Registrar.*

University of Calcutta

MINUTES

FOR THE YEAR

1918

PART I

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1918.

No. 4.

THE 19TH JANUARY, 1918.

Present :

THE HON'BLE DR. DEVAPRASAD SARVADHIKARY, SUMIRATNA, VIDYARATNAKAR, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

THE HON'BLE MR. W. C. WORDSWORTH, M.A.
THE HON'BLE BABU MAHENDRANATH RAY, C.I.E., M.A., B.L.
THE HON'BLE DR. NILRATAN SIRCAR, M.A., M.D.
RAI BAHADUR DR. UPENDRANATH BRAHMACHARI, M.A., M.D., PH.D.
J. N. DAS GUPTA, ESQ., B.A. (OXON.), BARRISTER-AT-LAW.
MAHAMAHOPADHYAY DR. SATISCHANDRA VIDYABHUSHAN, M.A., PH.D.
DR. D. N. MALLIK, B.A., SC.D., F.R.S.E.
J. E. BANERJEA, ESQ., M.A., B.L.
BABU BIRAJMOHAN MAJUMDAR, M.A., B.L.

127. The Minutes of the Syndicate, dated the 30th November, 1917, 14th and 15th December, 1917, were read and confirmed.

128. Read the Proceedings of the Board of Studies in Teaching, dated the 20th December, 1917.

RESOLVED—

That the following Examiners be appointed for the next L.T. and B.T. Examinations :—

L.T. EXAMINATION, 1918.

Theoretical.

Theory and Practice of Teaching in relation to Mental and Moral Science ...	... M. P. West, Esq., M.A.
Methods of Teaching specific subjects and school management...	W. E. Griffith, Esq., M.A.
Selected Educational Classics ...	H. A. Stark, Esq., B.A.
Selected course in modern English Prose and Poetry ...	J. W. Holme, Esq., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

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CHEMISTRY.

(*Pass and Honours.*)

Rai Chunilal Basu, Bahadur, M.B., F.C.S., I.S.O.
Mr. Jatindranath Sen, M.A.
Mr. R. N. Sen, M.A.
Babu Chandrabhushan Bhaduri, B.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
Babu Ramendrasundar Trivedi, M.A.

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130. The Registrar requested the Syndicate to fix a date for holding the ensuing Convocation of the Senate for conferring degrees.

RESOLVED—

That the Convocation be held on the first and second of March, 1918, graduates for the Bachelor degree in the different Faculties being represented on the first day and Masters and Doctors on the second day of the Convocation.

131. Read the Proceedings of the Board of Studies in Medicine, dated the 15th January, 1918.

University of Calcutta

Minutes of the Senate

FOR THE YEAR

1918

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1918.

No. 5.

THE 23RD MARCH, 1918.

PRESENT:

The Hon'ble Dr. Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, C.I.E., M.A., LL.D., *Vice-Chancellor, in the Chair.*

The Most Rev. George Alfred Lefroy, D.D.

Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Sambudhagama-Chakrabarti, Vidyarnab, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B

The Hon'ble Dr. Nilratan Sircar, M.A., M.D.

Babu Hemendrachandra Maitra, M.A.

Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.

Babu Adharchandra Mookerjee, M.A., B.L.

Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S,

Dr. H. Stephen, M.A., D.D.

Dr. Brajendranath Seal, M.A., Ph.D.

G. C. Bose, Esq., M.A.

J. N. Das Gupta, Esq., B.A. (Oxon.) Bar-at-Law.

S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.

Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.C.S.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.

The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.

Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

Babu Jnanchandra Ghosh, M.A.

Rai Kamudinikanta Banerjee, Bahadur, M.A.

D. N. Mallik, Esq., B.A., Sc.D., F.R.S.E.

Rai Sahob Dineschandra Sen, B.A.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

G. Findlay Shirras, Esq., M.A., B.L.

J. R. Banerjea, Esq., M.A., B.L.

Babu Birajmohan Majumdar, M.A., B.L.

Babu Bidhubhushan Goswami, M.A.

Babu Jamini Bhushan Ray, Kaviratna, M.A., M.B.

The University of Calcutta & Acharya P C.Ray 1906-1944

Mr. J. R. Banerjea seconded the motion, which was carried.

S95. **Mr. J. N. Das Gupta** moved, on behalf of the Syndicate, that in extension of the affiliation already granted, the Rangoon College be affiliated in Persian to the B.A. Pass standard, with effect from the commencement of the session 1918-19.

Rai Chunilal Basu, Bahadur seconded the motion which was carried.

S96. **Mr. J. N. Das Gupta** moved, on behalf of the Syndicate, that the Bagerhat College be affiliated to the I.A. standard in English, Vernacular Composition, Sanskrit, Persian, Logic, History and Mathematics, with effect from the commencement of the session 1918-19.

The Mover said: Quite recently the Government of India has invited the Senate to consider means to relieve the congestion due to the migration of mofussil students to our Metropolitan Colleges and one of the means which the Government of India itself suggests for our consideration is the establishment of efficient second grade colleges in the mofussil amid healthy local surroundings—physical and moral. I trust, therefore, that our present recommendation may be accepted on all hands as one of the first fruits of the Government of India's invitation to us and as one of our earliest contributions towards the solution of a problem which is yearly assuming enormous proportions.

The one fact which was brought home to us during our local enquiry is that there is enthusiasm behind the scheme and there is money born of that enthusiasm. As a consequence the sum of Rupees Fifty Thousand or so already raised on behalf of the college has been subscribed not by a few rich donors, but by a large circle of the supporters of the college scheme whose contributions range from five thousand to five hundred rupees.

There is another point which I feel it my duty to lay before the Senate. Just at the last moment when the Syndicate had made up its mind to come before you, they received certain representations in consequence of which they thought that the funds of the college should be deposited in the name of the President of the Governing Body, so that there may be no question about the funds being diverted from its final purpose.

Dr. P. C. Ray, in seconding the motion said that he had been in close touch with Bagerhat, and he was in a position to assure the members of the Senate that the people of that place were quite enthusiastic about it and they meant to carry out what they had applied for. In fact they had assured him that had it not been for the low prices ruling in the market for jute

and paddy, they would have been able to put by the money in the bank by this time. He thought that the people of Bagerhat would be able to raise not half a lakh, but fully a lakh of rupees. The promoters of the scheme were leading zamindars of the district, many of whom were worth several lakhs. And one of them, a most prominent member of the committee, though himself innocent of English education, felt so strongly upon the subject that he was quite willing to double his donation.

The Hon'ble the Vice-Chancellor said that the promoters were willing to transfer the money to Dr. Ray's account, and if the Senate passed this motion the letter to Government would not be issued till Dr. Ray informed them that the money had been transferred to his account.

The motion was then put to the vote and carried.

S97. Mr. J. R. Banerjea moved on behalf of the Syndicate, that in extension of the affiliation already granted, the Bangabasi College be affiliated in Philosophy to the B.A. Pass standard, with effect from the commencement of the session 1918-19.

The Mover said: In putting this motion before the Senate I wish to point out one or two things. As it appears from the papers that have been circulated, Dr. Seal and Dr. P. K. Ray inspected the college on behalf of the University. In the first report they sent to the Syndicate there were certain conditions laid down on compliance with which it seems, the Inspectors were in favour of recommending the affiliation prayed for. The matter was considered by the Syndicate, and it was referred again to these two Inspectors. In the meantime the Secretary of the Governing Body of the college, who is also the Principal of the college, had given an assurance that the conditions laid down in the Inspectors' report would be fulfilled as far as possible. In the first place, so far as the staff was concerned, the report insisted upon a staff of three, and that one of the men should be an M.A., who had taken up Psychology as one of his subjects. Other conditions were laid down, for instance that Rs. 2,500 should be spent in purchasing Philosophic books and journals for the students. The question of accommodation, was really a difficult one to solve. However, from the letter of the Secretary of the Governing Body and Principal of the college, it appears that he is ready to shift the school classes from the fourth downwards to another building. That will relieve the congestion, and the Philosophy classes, if affiliation is granted, will be held in the old building. There is no objection to this. Now that the Secretary of the Governing Body

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR, 1918.

NO. 7.

The 29th June, 1918.

Present:

The Hon'ble Sir Lancelot Sanderson, Kt., K. C., M.A., LL.B.,
Vice-Chancellor, in the Chair.

The Hon'ble Mr. J. R. Cunningham, M.A.
Sir Gooroo Dass Banerjee, Kt., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.
The Hon'ble Sir Nilratan Sircar Kt., M.A., M.D.
The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
Dr. Suraprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A., M.R.A.S., M.R.A.C.
J. N. Das Gupta, Esq., B.A. (Oxon.)
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
Babu Jnanchandra Ghosh, M.A.
F. C. Turner, Esq., M.A.
Rai Komudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Rai Sahab Dineschandra Sen, B.A.
G. Findlay Shirras, M.A., F.S.S.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
Babu Bidhubhushan Goswami, M.A.
F. W. Sudmersen, Esq., B.A.
Rev. Father F. X. Croban, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. J. Watt, M.A., D.D.
T. S. Sterling, Esq., M.A.
Rai Harinath Ghosh, Bahadur, M.D.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
W. E. Griffith, Esq., M.A.
T. T. Williams, Esq., B.Sc.

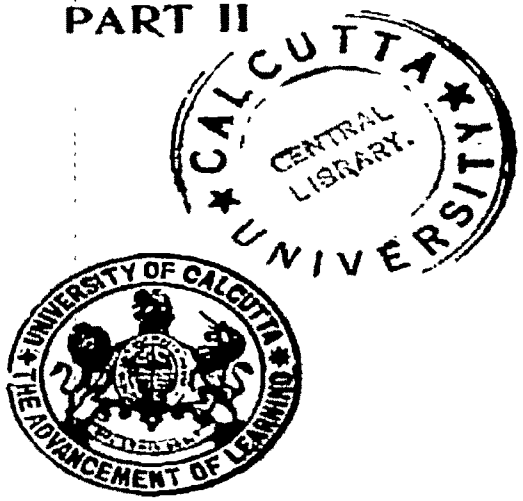
University of Calcutta

MINUTES

FOR THE YEAR

1919

PART II



CALCUTTA UNIVERSITY PRESS

Minutes of the Syndicate

FOR THE YEAR 1919.

No. 17.

THE 22ND APRIL, 1919.

Present.

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.,
Vice-Chancellor, in the Chair.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmoham Majumdar, M.A., B.L.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.

1. The Minutes of the Syndicate, dated the 11th April, 1919 were read and confirmed.

2. Read the following Proceedings of the Transfer Committee, dated the 7th April, 1919 :—

Banerjee, M.A., B.L., Secretary, of the Governing Body of the University College of Science for 1919-20.

4. The Registrar requested the Syndicate to recommend a person to represent the Department of Bio-Chemistry on the Governing Body of the College of Science for the year 1919-20.

RESOLVED—

That the Syndicate recommend to the Senate that Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., be appointed to represent the Department of Bio-Chemistry on the Governing Body of the College of Science for the year 1919-20.

5. Read the following :—

(*a*) Proceedings of a meeting of the University Lecturers in Applied Mathematics, dated the 11th April, 1919.

(*b*). Proceedings of a meeting of the University Lecturers in Physics, dated the 11th April, 1919.

(*c*). Proceedings of a meeting of the University Lecturers in Chemistry, dated the 11th April, 1919.

(*d*). Proceedings of a meeting of the University Lecturers in Botany, dated the 11th April, 1919.

(*e*). Proceedings of a meeting of the University Lecturers in Experimental Psychology, dated the 11th April, 1919.

RESOLVED—

That the Proceedings be confirmed.

RESOLVED ALSO—

That it be reported to the Senate that in accordance with the scheme for the management of the University College of Science recently adopted by the Senate, the undermentioned gentlemen have been appointed to the Governing Body of the College of Science for the year 1919-20.

Members of the Governing Body of the Palit Trust.

The Hon'ble the Vice-Chancellor.
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
The Right Hon'ble Lord S. P. Sinha of Raipur, P.C., K.C.
The Hon'ble Mr. Justice B. K. Mullick, I.C.S.
The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.
Sir P. C. Ray, Kt., C.I.E.
Prof. C. V. Raman, M.A.
Principal Ramendrasundar Trivedi, M.A.
Dr. P. Brühl, D.Sc., F.C.S., F.G.S., I.S.O.
Prof. J. R. Banerjea, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1919.

No. 2

THE 25TH JANUARY, 1919.

Present:

The Hon'ble Sir Lancelot Sanderson, Kt. K.C., M.A., LL.B.,
Vice-Chancellor, in the Chair.

The Hon'ble Mr. W. C. Wordsworth, M.A.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., O.B.E., L.M.S.
The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
Principal Herambachandra Maitra, M.A.
Principal Ramendrasundar Trivedi, M.A.
The Hon'ble Sir Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, Kt., C.I.E., M.A., LL.D.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Babu Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A., M.R.A.S.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Justice Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
J. C. Ghosh, Esq., M.A.
F. C. Turner, Esq., M.A.
The Hon'ble Sir Rajendranath Mookerjee, K.C.I.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A. LL.B., LL.D.
Shams-ul-Ulama Abu Nasr Md. Waheed, M.A.
Rai Sahab Dineschandra Sen, B.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

J. R. Banerjea, Esq., M.A., B.L.
Babu Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
J. R. Barrow, Esq., M.A
Babu Bidhubhushan Goswami, M.A.
The Hon'ble Mr. Abdul Majid, B.A., LL.B.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur, C.I.E.
F. W. Sadmorsen, Esq., B.A.
Babu Jaminibhushan Roy, *Kaviratna*, M.A., M.B.
Rev. Father F. X. Crohan, S. J.
Dr. Hiralal Haldar, M.A., Ph.D.
Babu Satischandra Ray, M.A.
Rev. Dr. J. Watt, M.A., D.D.
Rev. Dr. G. Howells, M.A., B.Litt., B.D., Ph.D.
T. S. Sterling, Esq., M.A.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
S. Khuda Bukhsh, Esq., M.A., B.C.L.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
Dr. Dwarkanath Mitra, M.A., D.L.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
Dr. P. C. Mitter, M.A. Ph.D.
Babu Manmathanath Ray, M.A., B.L.
Babu Charuchandra Biswas, M.A., B.L.
D. R. Bhandarkar, Esq., M.A.
D. B. Meek, Esq., M.A.
The Hon'ble Mr. Justice W. E. Greaves, M.A.
The Hon'ble Mr. F.A.A. Cowley.
The Hon'ble Mr. T. C. P. Gibbons, K.C.
The Hon'ble Mr. Kaminikumar Chanda, M.A., B.L.
M. N. Banerjee, Esq., B.A., M.R.C.S.
A. H. Harley, Esq., M.A.
The Hon'ble Dr. A. Suhrawardy, M.A., D.Litt., Ph.D., Bar-at-Law.
Nawab Bahadur A.F.M. Abdur Rahman, Bar-at-Law.
The Hon'ble Surgeon General W.H.B. Robinson, C.B., I.M.S.
Rai Abinaschandra Bose, Bahadur, M.A.
K. L. Datta, Esq., M.A., F.S.S., F.R.E.S.
Rev. A. B. Johnston, Esq., M.A.
J. M. Bottomley, Esq., B.A.

Before the business of the meeting commenced the Hon'ble the Vice-Chancellor moved that the Senate do pass a vote of condolence at this their first meeting after the great grief which had befallen His Majesty the King-Emperor and Her Majesty the Queen in consequence of the sad death of their youngest son, Prince John. In doing so the Hon'ble the Vice-Chancellor said :—

The fact that the late Prince had, as we now know, been suffering from a serious illness for some years cannot decrease the very great grief which His Majesty the King-Emperor and Her Majesty the Queen must be undergoing at the present time in consequence of the death of their youngest son. We have all admired the kingly and manly way in which His Majesty the King has led his subjects during the last four anxious and strenuous years. And during all that time, we

The University of Calcutta & Acharya P.C.Ray 1906-1944

The resolution was carried by acclamation.

The next item on the agenda paper was the election of four representatives on the Syndicate for the year 1919, two of whom at least should be either Heads of, or Professors in, Colleges affiliated to this University.

The undermentioned gentlemen had been nominated for election :

	Name.	Proposed by—
1.	Principal Herambachandra Maitra, M.A.	Dr. Brajendranath Seal, M.A., Ph.D. Babu Birajmohan Majumdar, M.A., B.L. Babu Manmathanath Ray, M.A., B.L.
2.	The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.	Dr. Surespranad Sarbadhikari, C.I.E., B.A., M.D.
3.	Principal G. C. Bose, M.A., M.R.A.S. ...	Principal Ramendrasundar Trivedi, M.A. Prof. J. R. Banerjea, M.A., B.L.
4.	Prof. J. N. Das Gupta, B.A. (Oxon.), Barrister-at-Law.	Dr. H. Stephen, M.A., D.D. Rai A. C. Bose, Bahadur, M.A.
5.	Prof. J. R. Banerjea, M.A., B.L. ...	The Hon'ble Mr. W. C. Wordsworth, M.A. Sir Prophullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
6.	Rev. Dr. J. Watt, M.A., D.D. ...	Mr. J. C. Ghosh, M.A.
7.	The Hon'ble Dr. A Suhrawardy, M.A., Ph.D., D.Litt., Barrister-at-Law.	Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

The election of two members from among the following gentlemen, who were either Principals of, or Professors in, Colleges affiliated to the University, was first proceeded with :—

Principal Herambachandra Maitra, M.A.
Principal G. C. Bose, M.A., M.R.A.S.
Professor J. N. Das Gupta, B.A.
Professor J. R. Banerjea, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.

On a ballot being taken the following votes were recorded :—

	Votes.
Principal Herambachandra Maitra	43
Professor J. N. Das Gupta	34
Professor J. R. Banerjea	32
Rev. Dr. J. Watt	25
Principal G. C. Bose	11

Principal Herambachandra Maitra and Professor J. N. Das Gupta were accordingly declared elected.

A ballot was then taken to elect the other two representatives from among the remaining candidates. The number of votes secured by each of them was as follows :—

	Votes.
Professor J. R. Banerjea	41
The Hon'ble Sir Nilratan Sircar	34
The Hon'ble Dr. A Suhrawardy	33
Rev. Dr. J. Watt	26
Principal G. C. Bose	10

Professor J. R. Banerjea and the Hon'ble Sir Nilratan Sircar were accordingly declared elected.

Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that the Registrar be appointed for the present for one year only.

The Mover said: It will be in the recollection of the Senate that we proposed an alteration in the regulations so as to enable the Senate to make the appointment for a shorter period than five years if it should appear desirable to the Senate to adopt that course. That resolution has been sanctioned by the Government of India.

Mr. J. R. Banerjea seconded the motion, which was carried.

Mr. Sudmersen then proposed the name of Mr. K. L. Datta, the Offg. Registrar.

Mr. K. L. Datta thanked Mr. Sudmersen for having proposed his name and said that he did not offer himself for the appointment.

Mr. Sudmersen then proposed the name of Rai Kumudinikanta Banerjee, Bahadur.

Rai Kumudinikanta Banerjee, Bahadur, asked for permission to withdraw his name.

Dr. Stephen also proposed Mr. K. L. Datta for the appointment, but on being informed that Mr. Datta did not offer himself for the post, he withdrew his proposal.

Nawab Syed Nawab Ali Chowdhury proposed the name of Rai Bahadur Saradaprasad Sen.

Shamsul-ulama Maulavi Abu Nasr Md. Waheed seconded the proposal.

Mr Richardson then proposed Mr. K. L. Datta for the post of Registrar.

The Hon'ble the Vice-Chancellor: Perhaps the gentleman, who has just proposed Mr. K. L. Datta, is not

M.Sc., as an Assistant to the University Professor of Botany for a term of one year from the 1st of January, 1919, on a remuneration of Rs. 150 a month be sanctioned.

Dr. Satischandra Vidybhushan seconded themotion, which was carried.

The Senate then proceeded to elect Members for the different Faculities for the year 1919-20 in accordance with Section 2, Chaptor III of the Regulations. A list containing the names of persons proposed by the Syndicate for election to the different Faculties as well as the additional names proposed by the Members of the Senate for the Faculties of Arts, Science, Law and Engineering had been previously circulated to all Members of the Senate.

The following were the names of persons proposed for election :—

Faculty of Arts.

(1) Persons recommended by the Syndicate—

The Hon'ble Mr. W. C. Wordsworth, M.A.
The Hon'ble Mr. J. R. Cunnigham, M.A.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
The Hon'ble Sir Asutosh Mookerjee, Kt, C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.,
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Principal Herambachandra Maitra, M.A.
Principal Ramendrasundar Trivedi, M.A.
The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
Babu Adharchandra Mukherjee, M.A., B.L.
Dr. H. Stephen, M.A., D.D.
Dr. C. E. Cullis, Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
Principal G. C. Bose, M.A., M.R.A.S.
J. N. Das Gupta, Esq., B.A. (Oxon.), Barrister-at-Law.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Nawab Sir Syed Shams-ul Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A. Ph.D.
F. C. Turner, Esq., M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Shams-ul-Ulama Abu Nasr Muhammad Waheed, M.A.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1919.

No. 7.

THE 26TH APRIL, 1919.

Present

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.,
Vice-Chancellor, in the Chair.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Sir Kailaschandra Basu, Kt., C.I.E., O.B.E., L.M.S.
Principal Horambachandra Maitra, M.A.
The Hon'ble Sir Devaprasad Sarvadhikary, *Sariratna, Vidyaratnakar*, Kt., C.I.E., M.A., LL.D.
Dr. Saroshprasad Sarbadhikari, C.I.E., B.A., M.D.
Mr. Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
Dr. H. Stephen, M.A., D.D.
S. Heaton, Esq.
Dr. Kedarnath Das, C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
Principal G. C. Bose, M.A., M.R.A.S.
J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D. F.C.S.
The Hon'ble Nawab Sir Syed Shamsul-Huda, K.C.I.E., M.A., B.L.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
J. C. Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Rai Sahob Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
G. Findlay Shirras, Esq., M.A., F.S.S.
J. R. Banerjea, Esq., M.A., B.L.
Mr. Birajmohan Majumdar, M.A., B.L.
E. E. Biss, Esq.
Rai Sahob Bidhubhushan Goswami, M.A.
The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur, C.I.E.
Lt.-Col. B. H. Deare, M.B., D.P.H., M.R.C.P., I.M.S.
Mr. Jamini bhushan Ray, *Kaviratna*, M.A., M.B.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.

The result of the ballot was as follows :—

Babu Pramathanath Banerjee	...	...	34 votes.
Dr. S. P. Sarbadhikari	...	...	28 votes.
Principal G. C. Bose	...	...	1 vote.

Babu Pramathanath Banerjee was accordingly declared elected.

4. **Sir Asutosh Mookerjee** moved, on behalf of the Syndicate, that Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., be re-elected as a representative of the Calcutta University on the Court of Visitors of the Indian Institute of Science, Bangalore.

Rai Chunilal Basu, Bahadur, seconded the motion, which was carried.

5. **Sir Asutosh Mookerjee** moved, on behalf of the Syndicate, that Dr. Annkulchandra Sarkar be appointed as University Lecturer at Dacca in Organic Chemistry.

The mover said that Dr. Sarkar was University Professor in Calcutta, when he was on the staff of the Presidency College. He had now been transferred to Dacca and had been proposed by the authorities of the Dacca College to be appointed as University Professor there.

Mr. J. R. Banerjea seconded the motion, which was carried.

6. **Mr. Charuchandra Biswas** reported, on behalf of the Syndicate, that, in accordance with the Scheme for the management of the University College of Science recently adopted by the Senate, the undermentioned gentlemen had been appointed to the Governing Body of the College of Science for the year 1919-20 :—

Members of the Governing Body of the Palit Trusts.

The Hon'ble the Vice-Chancellor.
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
Principal Ramendrasundar Trivedi, M.A.
Dr. P. Brühl, D.Sc., F.C.S., F G.S., I.S.O.
Prof. J. R. Banerjea, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.
The Right Hon'ble Lord S. P. Sinha of Raipur, P.C., K.C.
The Hon'ble Mr. Justice B. K. Mullick, I.C.S.
The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.
Sir P. C. Ray, Kt., C.I.E.
Prof. C. V. Raman, M.A.

The University of Calcutta & Acharya P.C Ray 1906-1944

Members of the Board of Management of the Ghose Endowment.

The Hon'ble the Vice-Chancellor.
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
Dr. Sudhansukumar Banerjee, D.Sc.
Prof. D. M. Bose, M.A., Ph.D.
Dr. P. C. Mitter, M.A., Ph.D.
Prof. S. P. Agharkar, M.A.
Principal Herambachandra Maitra, M.A.
Principal G. C. Bose, M.A.
Prof. S. C. Mahalanabis, B.Sc., F.R.S.E.
Mr. J. C. Ghose, M.A.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.
Sir P. C. Ray, Kt., C.I.E.
The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.

University Professors.

Dr. P. Brühl, D.Sc., F.C.S., F.G.S., I.S.O.
Prof. S. Manlik.

Representatives of the University Lecturers—

Mr. Nalinimohan Bose, M.Sc. ... Dr. Meghnad Saha, D.Sc. ...	Applied Mathematics.
Mr. Satyendranath Basu, M.Sc. ... „ Jogeschandra Mookerjee, M.A.	Physics.
Dr. Jnanendrachandra Ghosh, D.Sc. Mr. Jnanendranath Mookerjee, M.Sc.	Chemistry.
Mr. S. N. Bal, M.Sc. ...	Botany.
Mr. Girindrasekhar Bose, M.Sc. ... Dr. Narendranath Sengupta, Ph.D.	Experimental Psychology.

He moved (1) that for the purposes of Rule 2 (*e*) of the Scheme, Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D., be appointed Representative of the Department of Bio-Chemistry on the Governing Body for the year, 1919-20.

(2) (*a*) That the Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., be appointed Vice-President of the Governing Body for 1919-20.

(*b*) That Mr. H. C. Banerjee, M.A., be appointed Secretary, for 1919-20.

(*c*) That the quorum for a meeting of the Governing Body of the University College of Science be fixed at seven.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1919.

No. 9.

THE 14TH JUNE, 1919.

Present

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.,
Vice-Chancellor, in the Chair.

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.

Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.

Mr. Adharchandra Mukerjee, M.A., B.L.

Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.

Dr. H. Stephen, M.A., D.D.

B. Heaton, Esq.

Dr. Kedarnath Das, C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

G. C. Bose, Esq., M.A., M.R.A.S.

J. N. Das Gupta, Esq., B.A. (Oxon.), Bar-at-Law.

Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.

J. C. Ghosh, Esq., M.A.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Rai Saheb Dineschandra Sen, B.A.

J. R. Banerjee, Esq., M.A., B.L.

Mr. Birajmohan Majumdar, M.A., B.L.

E. E. Biss, Esq.

Dr. Hiralal Haldar, M.A., Ph.D.

Mr. Satischandra Ray, M.A.

Rev. Dr. J. Watt, M.A., D.D.

Rev. Dr. G. Howells, M.A., B.Litt., B.D., Ph.D.

T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.

Rai Bhupatinath Das, Bahadur, M.A., B.Sc.

The Hon'ble Mr. T. O. D. Dunn, M.A.

Dr. Bidhanchandra Ray, M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).

Dr. P. C. Mitter, M.A., Ph.D.

Mr. Manmathanath Ray, M.A., B.L.

Mr. Charuchandra Biswas, M.A., B.L.

D. R. Bhandarkar, Esq., M.A.

The Hon'ble Mr. Justice W. E. Greaves, M.A.

The Hon'ble Dr. A. Suhrawardy, M.A., D. Litt., Ph.D., Bar-at-Law.

Rai Abinaschandra Bose, Bahadur, M.A.

K. L. Datta, Esq., M.A., F.C.S., F.R.E.S.

Dr. H. C. Mookerjee, M.A., Ph.D.

Mr. Pramathanath Banerjee, M.A., B.L.

The Hon'ble Mr. Justice C. C. Rankin, Bar-at-Law.

lectures to him, on the Vedas. He therefore took Comparative Philology. He is acquainted with a number of languages, among which are Pali, Sanskrit and Persian. I recommend that the appointment be sanctioned.

Dr. Satischandra Vidyabhushan seconded the motion which was carried.

The next item was as follows :—

A letter from the Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., giving notice that he will bring up before the Senate, under Section 15, Chapter IV, of the University Regulations, the decision of the Syndicate, dated the 7th June, 1918, *viz.* :— "That the Officiating Registrar be authorised to sign University Examination Certificates with a facsimile stamp to be kept always in his personal custody but he should take safeguards by having them numbered consecutively in print"—and will move that the Senate do revise and modify such decision in the manner following :—

"That certificates granted to successful candidates at the various University Examinations (other than Degree Examinations) in the forms set out in Appendix A to the Regulations do continue to be signed by the Registrar, as heretofore, and that for the present no departure be made in this respect from the practice which has been uniformly followed in this University during the last 60 years."

(Adjourned from the meeting of the Senate, dated 15th February, 1919.)

The Registrar reported that the Syndicate, at their meeting held on the 16th May, 1919, rescinded the above resolution which had never been carried into effect.

ORDERED—

To be recorded.

Principal G. C. Bose proposed a slight change in the order of business. In item No. 8 there were five proposals and he suggested that each proposal should be voted upon separately as some members might be in favour of certain proposals and not in favour of others.

The Hon'ble The Vice-Chancellor said that he was unable to agree to the proposal.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that the following changes be made in the Regulations :—

(*a*) In Chapter XXX, Section (6), for "fifteen" substitute "twenty."

(*b*) In Chapters XXXI and XXXV, Section (4), for "thirty" substitute "thirty-five."

(*c*) In Chapters XXXII and XXXVI, Section (4), add the following proviso :—

"Provided that a candidate who applies for admission to the Honours Examination shall pay an additional fee of Rupees ten."

(*d*) In Chapters XXXIII and XXXVII, Sections (2) and (3), for "fifty" substitute "eighty."

(*e*) In Chapter XLI Sections (7), (9) and (12), for "fifteen" substitute "thirty."

The Mover said : I have the honour to place before the Senate what has been described by one of my friends as the most innocent looking motion which has ever been brought before the Senate, but which is fraught with dire consequences The motion, when read with the Regulations, amounts to this : first, that the fee levied from candidates for admission to the Matriculation Examination be raised from Rs. 15 to Rs. 20 ; secondly, that the fee levied from candidates for admission to the Intermediate Examination in Arts and Science be raised from Rs. 30 to Rs. 35 ; thirdly, that the fee levied from candidates for admission to the B.A. and B.Sc. Honours Examinations be raised from Rs. 40 to Rs. 50 ; fourthly, that the fee levied from candidates for admission to the M.A. and M.Sc. Examinations be raised from Rs. 50 to Rs. 80 and, fifthly, that the fee levied from candidates for admission to the Examinations in Law be raised from Rs. 15 to Rs. 30.

I am delighted to find that there is at least one member of the Senate who is prepared to go further than the Syndicate have done ; Dr. Kedarnath Das has sent in notice of an amendment that, in addition to what is proposed by the Syndicate, the fee levied from candidates for admission to the B.A. and B.Sc. Pass Examinations be raised from Rs. 40 to Rs. 45. I have since discovered that there is at least one other gentleman who considers that the fees levied in respect of some other examinations which the Syndicate have left out may well be raised.

Before I deal with this matter, I should tell the Senate what concrete result would follow from the acceptance of this motion. In the case of the Matriculation Examination, the normal number of candidates is 16,000 ; and if the motion is accepted, there would be an additional revenue of Rs. 80,000.

In the case of the two Intermediate Examinations, the normal number of candidates is 8,000, and the additional income would be Rs. 40,000. In the case of the B.A. and B.Sc. Honours Examinations, the number of candidates is 5,00 and the increased income would be Rs. 5,000. In the case of the M.A. and M.Sc. Examinations, the number of candidates is 950 and the additional revenue would amount to Rs. 28,500. In the case of the Law Examinations, the aggregate number of candidates is 4,000 and the additional revenue derived would be Rs. 60,000. This would give an additional revenue of Rs. 2,13,500. If the amendment notified by Dr. Kedarnath Das is accepted there would be a further additional revenue of Rs. 17,500, bringing up the total to Rs. 2,31,000.

The time has arrived when it is imperatively necessary to raise our revenues by a substantial amount. The work of the University has rapidly grown in extent and complexity within the last few years, and if this work in future is to be carried on with any approach to moderate efficiency, we must raise more money. I shall indicate briefly the different heads and purposes for which money is needed. I put in the forefront the question of general administration of the University. It will be in the recollection of the Senate that two years ago the Senate sanctioned the appointment of a Controller of Examinations. There was a debate at that time as to the necessity for the appointment, and one of my friends, who is absent to-day, expressed the hope that at the end of three years, for which period the appointment was sanctioned, it would be found possible to abolish the appointment. I assured him at the time that if he had known anything about the business of the conduct of examinations in the University, he would never have ventured upon such a pious hope. Since then it has become manifest to everybody intimately acquainted with the work of the Controller of Examinations that if the reputation of the University is to be saved, if our examinations are to be safely conducted, and if the results of our examinations are to be published early, there must be a special officer to look after our examinations. But a Controller of Examinations by himself cannot run the department. He must be given a subordinate staff. The Senate has recently sanctioned he scheme framed by the Syndicate for the allocation of duties between the Registrar and the Controller of Examinations, and acting on the sanction so given, the Syndicate have not only divided the duties, but have also given to each officer a separate staff to enable him to carry on the work of his department. During these investigations which have occupied much of my time and the time of the Syndicate during the last two months, it

The University of Calcutta & Acharya P.C.Ray 1906-1944

transpired that the staff of the Registrar required to be strengthened in a considerable measure. It is not that people who are familiar with the growth of University work in recent years were not aware of this, but the precise extent of the additional assistance which was needed was not known till quite recently. There is one branch in which the work has rapidly increased, namely, the duties the Syndicate perform in relation to the schools, which have increased in number from 650 to 850 during the last six or seven years. Unfortunately the schools which have sprung up are the reverse of efficient with the result that there is enormous correspondence with the schools; the officiating Director of Public Instruction, who is present here to-day, will bear me out, if necessary, as to the extent of work which has been imposed upon his department. The increase of work has been not merely in the office of the Director of Public Instruction, but also in the University. Our correspondence in the past has been always lengthy and complaints have been constant from people who have anything to do with the University that answers have never reached them in time. This state of things must be remedied, and the Syndicate are doing their best to see that things are altered for the better. We have further found it necessary, on a suggestion which was made by the late officiating Registrar, to appoint two new officers, one of them an Overseer to look after the University buildings, and another a store-keeper to look after our immense furniture; very few people have any idea of the amount of money which is lost every year by the furniture getting decayed and destroyed.

There is another very important work which the Syndicate have just taken in hand, and which will occupy a special staff for a considerable time; that is the arrangement and re-organisation of the records of the University. I do not exaggerate matters in the least when I say that our records are in a state of helpless confusion. Only quite recently it took more than three days to find out an important letter, of the existence of which I was aware. I had seen the letter which had come from the Government of India, and I knew that it was in the records, but nobody knew where it could be found. The re-organisation of the records will be a very tedious process. A special staff has been appointed for the purpose, and it will work under the supervision of a Committee consisting of myself, the Registrar and the Controller of Examinations.

I have spoken of the increase of the staff; but we find it necessary not merely to increase the staff but also to increase their salaries. And when I speak of the staff in this connection,

The University of Calcutta & Acharya P.C.Ray 1906-1944

I include therein our menials. Conditions have changed in such an astonishing manner in recent years that the pay which we give to many of our Assistants makes it practically impossible for them to obtain even the bare necessaries of life. Many of them have devoted their lives to the service of the University and reached the maximum of their grades some years ago. But if you want to keep your men efficient and at least not discontent, you will have to give them a higher salary.

I now turn to another branch of our work where the expenses have increased in a very large measure during the last four or five years, that is, the actual expenses in connection with examinations. These expenses have increased on account of the rise in price of paper, rise in price of stationery, rise in price of wages. If any member of the Senate would take the trouble to get into the Accounts Department and scrutinise the bills which are sent in by responsible gentlemen who have undertaken superintendence of our examinations in Calcutta and the mofussil, and compare the charges which are made this year with the charges which were made five years ago, he will be surprised to find the actual extent of the increase in the cost of conduct of the examinations. Here, again, more money is needed.

I pass on to another very important department of the University where immediate improvement is required; I mean the University Press. That is a department which, if it is to be properly conducted, must be re-organised. At present it is remunerative, but it may be made more so, if we are able to spend some more capital. Meanwhile, we have re-organised the staff of our Press; we have appointed additional experienced proof readers; we have set up new motors; but the Press is absolutely inadequate to meet the pressure of University work. Here, again, we require more money to do our work properly.

Leaving aside now what I have called the general administration of the University, I turn for a moment to the teaching activities of the University. In 1917 when the Government of India, on the recommendation of the Senate, sanctioned the scheme for Post-graduate studies, they effected in substance a revolution in the arrangements for higher teaching within the jurisdiction of the University, and a vast responsibility was placed on our shoulders. We are now responsible, in conjunction with the colleges and with the help of such assistance as they are able to give us, for arranging the higher teaching work on a satisfactory basis. This department has expanded in a surprising manner, and we have now arrangements for higher teaching in English, Sanskrit, Pali, Arabic,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Persian, Comparative Philology, Mental and Moral Philosophy Experimental Psychology, History, Ancient Indian History, Pure Mathematics and Indian vernaculars, including therein, besides Bengali, 11 other vernaculars. I have enumerated the subjects which are comprised in the Department of Letters. In the Department of Science we have organised teaching arrangements in Applied Mathematics, Physics, Chemistry, Physiology, Geology, Botany and Zoology. Unfortunately, efficient teaching in Science cannot be conducted as cheaply as efficient teaching in the Department of Letters. Laboratories are required, which, even if run on a modest scale are expensive. So far as the University College of Science is concerned, it exists on account of the munificent endowments of the late Sir Taraknath Palit and of Sir Rashbehary Ghose, and I do not speak at random when I say that it is quite within the bounds of possibility that at least another munificent gift is much nearer us than most people round this table imagine. But if we are to prove ourselves worthy of the gifts of the savings of a lifetime of some of the very best men of the country, we must prove that we are able to furnish our Professors and our advanced students with laboratories where some of the highest teaching can be conducted with credit to the University. So far as the Department of Chemistry is concerned, I do not say that it is fully equipped, though it may be considered as moderately well equipped. So far as the Department of Physics is concerned, a great deal yet remains to be done. So far as Botany and Zoology are concerned, we are still at the threshold. Money must be spent if we are to save our faces before any Board of Visitors which may be appointed to inspect and report on the condition of the University College of Science. Apart from this, we have to provide a suitable library. Our library is fairly well equipped in the Department of Letters, not in every branch, but in several branches: for instance we are not particularly well off in the department of Ancient Indian History or in the department of Philosophy; though in several other departments the condition is more satisfactory. But in the Department of Science, we are really very badly off, and we urgently require scientific periodicals and standard works of reference in each of the departments that I have mentioned.

I have given a very imperfect outline of the various activities of the University which make it imperatively necessary to take steps to increase our revenue. It may be said round this table that we should apply to the Government. I will not pause to consider whether we should or should not make such an application. But I prefer to be self-reliant, for I feel that the more money we are able to raise, the stronger and the more irresistible

will become our claim upon the Government for financial assistance. We must not shut our eyes, however, to the circumstances in which the Government has been placed by reason of the war. The financial stringency is not likely to disappear at once, and I think it would be an evil day for the University, if we were to say, let us wait, let us keep back all our developments till we can induce the Government at Simla to give us all the money that we require. The only question, therefore, is, can Bengal pay? As to that, I feel no doubt whatever that Bengal can pay, if Bengal chooses to pay, and I hope a united appeal will go forth to Bengal from the Senate for financial assistance for her University. It may be said round this table that our people are poor and that even an addition of five rupees to be paid by the guardian of a student who seeks admission to the portals of the University will be an inconvenience to him. I do not deny that there are poor students; I do not deny that there are students, though a very small fraction, who have to raise money actually by begging. But if students can raise fifteen rupees, they will be able to raise twenty rupees; there is no lack of generous people in Bengal who will assist poor students to the small extent desired.

With regard to the amendment to be moved by Dr. Kedarnath Das, my own sympathies are with him. But I am placing this matter before you as the spokesman of the Syndicate, and I have no authority to accept it. I can only say that I should be personally glad if the amendment is accepted by the Senate.

Dr. Suresprasad Sarbadhikari: I have very great pleasure in seconding this motion. I was one of those who were on the opposition benches, if that term can be used, when the proposal to raise the fees of the Matriculation Examination from Rs. 12 to Rs. 15 and *pro rata* for the other examinations was made some time ago. In the piping times of peace when money was easier and our needs were not quite so great, we might have for a time averted the catastrophe by rigid economy at least to some extent. But the time has come when such arguments cannot be advanced with anything approaching the propriety of reasonableness. The price of everything is going up; education only cannot long remain cheap. That is a point which is not necessary to labour. My only regret is that some of the sister Faculties to the Faculties of Arts and Science, have not been included in the scheme of enhanced fees. To bring into equality the different Faculties is the prime duty of the Senate and the Syndicate and I am not without hope that before long the omission will be rectified.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. Kedarnath Das moved the following amendment of which he had given notice :—

"That in para. (c) add the following between the words '(4)' and 'add'—

for 'forty' substitute 'fortyfive and.'"

Dr. Hiralal Haldar: I beg to second the amendment. I do not deny that it will be a hardship to the students to pay the enhanced fees, but what is to be done. The University is committed to various policies and enterprises which imply a large expenditure, and the only source of income it has is the fees realised from students. As Dr. Suresprasad Sarbadhikari has said the expenditure might be cut down here and there, but that will not help us much. Money will have to be found and there are only two alternatives before us, bankruptcy or the raising of fees. I do not think that any member of the Senate will say that we should adopt the alternat ve of bankruptcy. This leaves us the only other alternative of raising the fees. We have therefore no option in the matter.

As regards Dr. Kedarnath Das's amendment, it is only logical that the fees of the B.A. and B.Sc. Pass Examinations should be raised and if the motion is accepted, the amendment should also be accepted.

In recent years the tuition fees of the colleges have been materially increased. I believe that these fees have been doubled and the students who used to pay Rs. 3 now pay Rs. 5 or 6. We must remember that the students pay their college-fees every month, whereas for the examinations they will pay only once. The hardship therefore is not the same as in the case of the college fees. The opponents of this motion have never said a word against the enhancement of college-fees.

Principal G. C. Bose: The resolution has been moved with an advocacy befitting a trained lawyer and seconded from a quarter from which it was least expected. I have listened to the speech of Sir Asutosh Mookerjee from the beginning to the end and I fully understand and appreciate the various grounds for which he has brought forward this motion before the Senate. I know and the Senate also know that the cost of running the University, especially the teaching department, is increasing very rapidly. The revenue, on the other hand, is not expanding at that proportionate rate. The University is therefore in a fix as to how to make both ends meet, and it is suggested that the only means of raising the revenue is to raise the fees paid by the students who come to the University for their examinations.

I have heard Sir Asutosh say that a very small fraction of the student community of Calcutta go about from door to door begging Everybody knows how many students every year he has to provide with materials, money, books, etc., in order to help them in their studies. The college authorities also know the great pinch and poverty which presses upon the poor students; they apply for free studentships, for reduction of their tuition fees, their laboratory fees and so on. There are friends round this table who are charitably disposed and who spend not a very small portion of their income in befriending these poor students. And notwithstanding all these difficulties, the students are carrying on their studies in this University. The students do not pay the fees, but it is their guardians who have to do so. In ordinary times before the war the condition of the classes of Bengal was such that they could only live from hand to mouth. During the last four years of the European war their economic condition was very bad indeed. Fortunately the war is over and it was thought that the economic condition of the country would improve; instead of improving, it has become worse. The bare necessaries of life are now selling at prices unheard of in the history of Bengal. Such are the conditions which are facing the classes in Bengal from whom the revenue of the University is desired. The time at which this recommendation has come to the Senate is very inopportune. If this proposal had come two years later, I would have been perhaps the first to support it, as I did on the last occasion when the Matriculation fees were raised from twelve to fifteen rupees. I wish we had amongst us Sir Gooroo Dass Banerjee of hallowed memory to champion the cause of the classes of Bengal. But I have my duty by the Senate and by the classes from which I spring. I belong to the classes and my duty is to speak on their behalf. The University principally exists for the people of Bengal, and not the people for the University. I would earnestly appeal to the mover of the resolution to see whether his motion could not be postponed for at least a year. I therefore beg to move under Section 7 of Chapter I of the Regulations that the Syndicate be directed to review its decision.

Rai Chunilal Basu, Bahadur: I have great pleasure in seconding the motion of Mr. Bose. Mr. Bose probably thought that he would not get any member of the Senate to support him. But if he does not get any one else, he has at least one supporter in me. I cannot for many reasons give my support to the recommendations of the Syndicate, at least so far as the raising of the fees of the Matriculation and I.Sc. candidates is concerned. In the first place, there is a moral aspect of the case, and I should say that this proposition of

raising the fees of the Matriculation Examination cannot at all be supported on moral grounds. We have been taxing the Matriculation students all along, more than what they should be required to pay for their examinations and for the other expenditure in connection with that examination. If you will look to the accounts of the University, you will find that out of the fees received from Matriculation students, a considerable portion is applied to meet the expenditure on Post-graduate teaching. So that the fees from the Matriculation go not only to meet the expenses of that examination, but also to help the University in other respects. In these circumstances, I ask you: would it be fair and just to saddle the Matriculation students with a further burden in order to meet the deficits in other teaching departments of the University? Many of these students will probably not go up for Post-graduate teaching. Then why should their parents and guardians be made to pay for a thing from which their boys will not receive any benefit? Can we not exercise a little economy in the different departments of the University and also in the Post-graduate classes, so as to reduce and minimise our expenditure as far as possible? And if we succeed in that way we shall probably not have to tax our poor students with more fees for their examinations. I would appeal to the members of the Senate that before they agreed to levy a tax on the poor students, they should put their house in order, by making enquiries and taking steps to see if they could not economise in the different departments of the University, thereby reducing the expenditure and thus relieving the poor students of an extra burden in this respect. I am an Indian, and I know to a certain extent the conditions of my own countrymen. Those gentlemen who say that only a fractional portion of the community might suffer by the increase of fees in the different examinations are either not well acquainted with the conditions of the country, or they shut their eyes willingly without looking straight into the matter. I know for a certainty that the community from which the majority of our students are recruited, at least for the Matriculation Examination, consists of really poor men living from hand to mouth, and it is very difficult for them not only to pay the expenses of their boys in the schools, but also to procure a lump sum of fifteen rupees to meet the payment of the University fees for the examination. This is a fact which I would challenge anyone, who has any knowledge of the condition of the country, to contradict.

The Hon'ble Sir Asutosh Mookerjee: I most emphatically contradict it.

Rai Chunilal Basu, Bahadur: There are at least some, sitting round this table, who can support my statement that the

amount of poverty described by the mover of the resolution is far greater than what he has given us to understand to be really the case in the country. On those grounds, I think that this motion is very inopportune at the present moment. Everywhere people are applying for increase of pay. The Government and the mercantile offices are increasing the pay of their employees by 10 to 20 per cent. or more. I think that it would be better for the University to postpone the consideration of this matter and wait till the economic conditions of the country improve a little. I have, therefore, great pleasure in seconding the motion of Mr. G. C. Bose.

Sir Prafullachandra Ray: I am afraid I am going to spring another surprise upon the Senate, as it will be my painful duty to support Mr. G. C. Bose and Rai Chunilal Basu, Bahadur. I am fully conscious of the supreme need of funds, and no institution has derived greater benefit from the accumulated funds of the last 30 years or so than the College of Science, with which I am associated. No one knows better and no one has studied with greater care all the intricacies and details of the financial aspect of the University than the mover of the motion, but I object to the manner of raising the money.

A couple of years ago a Committee of which the Mover of the resolution and myself were members, recommended that there should be a substantial increase in the fees for the examinations. But I find that, having got the increased fees, he is now again anxious to increase them still further by leaps and bounds. Of course the Senate might take upon itself the task of increasing the fees in the manner suggested; and what the Finance Minister fights shy of, the Senate might, in a moment of inadvertence, be called upon to do. The poor man's salt has been spared by the Finance Minister for the last few years. He knows that if he raised the tax on salt, it might not affect to any very great extent, but he has spared the poor. But we find that we cannot spare the poor in this matter. I have been lately round several villages in the district of Khulna which is rather prosperous and where there is a bumper crop, and I went very carefully into the economic condition of the classes. I am fully aware that a very large proportion of the students of the schools in that district are exceedingly poor, and any one who has a knowledge of the economic aspect of Bengal recently will agree with me that this increase in the fees for the examinations will tell very harshly on their guardians. Dr. Sureshprasad Sarbadhikari used a very strong argument that because expenditure in other directions had gone up, therefore the fees should be increased. But when the guardian has to pay fifty per cent. extra for the ordinary necessaries of life, should he be

taxed further by raising the fees? This is perhaps the only civilised country under the sun where the increased expenditure in carrying on the University organisation is to be met only by levying extra fees from the students. Has Bengal no other Sir Taraknath Palit or Sir Rashbehary Ghose, who could supplement the revenues of the University? Has Bengal seen the last of our philanthropists? Am I to understand that the race has become extinct?

The Hon'ble Sir Asutosh Mookerjee: If lawyers are vilified, as they have been in the past, they will not pay anything more.

Sir Prafullachandra Ray: Only this morning I was reading an account of the manner in which Rockfeller and Carnegie were going to support or found research scholarships in America. There were similar men in England and in other countries. But why should Bengal be the only country where, if additional expenditure is required for an additional chair or lectureship or any other department, the only resource left is to make the poor students pay increased fees. It is extremely painful to me to find that this most unkindest cut of all should be inflicted by Sir Asutosh, whose name is a household word throughout the length and breadth of Bengal for his sympathy with the Indian students and for his Herculean labours in connection with education in Bengal, and well may the students cry out in anguish. "*Et tu Brute*!"

Dr. Howells: I confess to a very considerable sympathy with those who oppose this resolution, and some of the grounds that they have put forward. Every word for instance, that has been uttered on the undesirability of making the lot of the poor still harder certainly appeals to me and I cannot ignore it. But, notwithstanding everything that has been said, I feel, at any rate as a temporary measure, and what I consider to be a temporary evil even, that I am compelled to vote, and vote most heartily for the resolution as an absolute necessity under present conditions. I support the resolution to increase the fees on moral grounds. I believe myself that an inefficient, badly conducted educational system is in itself immoral, and has a grave effect on the morale of a nation. I do not believe that the Calcutta University is at present conducted by any means in an ideal way, and unless we get more money to carry on in an efficient way, it will go from bad to worse. We are being watched by other civilised countries. Here in India we are being watched and criticised, in many cases very severely, for the inefficient education and for the inefficient methods of our present University system. Bengal must have a thoroughly efficient University system, and it is not to the

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1919.

No. 11.

THE 23RD AUGUST, 1919.

Present:

The Hon'ble Sir Nilratan Sircar, Kt., M.A. M.D.
Vice-Chancellor in the Chair.

The Hon'ble Mr. T. O. D. Dunn, M.A.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
Dr. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D.
Mr. Adharchandra Mookerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Dr. H. Stephen, M.A., D.D.
B. Heaton, Esq.
Dr. Kedarnath Das, C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. Brajendranath Seal, M.A., Ph.D.
G. C. Bose, Esq., M.A., M.R.A.S.
J. N. Das Gupta, Esq., B.A., (Oxon.), Bar-at-Law.
S. C. Mahalanabis, Esq., B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D.
J. C. Ghosh, Esq., M.A.
F. C. Turner, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Rai Saheb Dineschandra Sen, B.A.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
J. R. Banerjea, Esq., M.A., B.L.
Mr. Birajmohan Majumdar, M.A., B.L.
Lt.-Col. B. H. Deare, M.B., M.R.C.P., D.P.H., I.M.S.
Mr. Jaminibhushan Ray, Kaviratna, M.A., M.B.
Dr. Hiralal Haldar, M.A., Ph.D.
Rev. Dr. J. Watt, M.A., D.D.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Khan Bahadur Maulavi Muhammad Ibrahim, B.A.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. Dwarkanath Mitra, M.A., D.L.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
Z. R. Zahid Suhrawardy, Esq., M.A., B.L. Bar-at-Law.
Dr. P. C. Mitter, M.A., Ph.D.
Mr. Manmathanath Ray, M.A., B.L.
Mr. Charuchandra Biswas, M.A., B.L.
D. R. Bhandarkar, Esq., M.A.
The Hon'ble Mr. Justice W. E. Greaves, M.A.
The Hon'ble Mr. Kaminikumar Chanda, M.A., B.L.
M. N. Banerjea, Esq., B.A., M.R.C.S.
A. H. Harley, Esq., M.A.
The Hon'ble Dr. A. Suhrawardy, M.A., D.Litt., Ph.D., Bar-at-Law.
Dr. D. Thomson, M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
J. M. Bottomley, Esq., B.A.
Dr. Harendracoomar Mookerjee, M.A., Ph.D.
Mr. Pramathanath Banerjee, M.A., B.L.
The Hon'ble Sir F. W. Carter, Kt., C.I.E., C.E.B

Mr. Charuchandra Biswas seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that the Proceedings of the Council of Post-Graduate Teaching in Science, dated the 5th July, 1919, be confirmed.

Mr. Charuchandra Biswas seconded the motion.

Rai Chunilal Basu, Bahadur, moved the following amendment, of which he had given notice:—

"That the recommendation for the appointment of the last two gentlemen as University Lecturers in Zoology for 1919-20 to be found in the Proceedings of the Executive Committee of the Council of Post-Graduate Teaching in Science, dated the 11th June, 1919 (page 1, paragraph 2), and which was subsequently confirmed by a majority of votes at the meeting of the Council, held on the 5th July, 1919, be cancelled and that the Proceedings of the Council thus amended be confirmed."

The Mover said: I may be permitted to observe at the outset that it is not at all a pleasant duty, I should say that it is a painful duty, for me to move this amendment, for the simple reason that I have to speak against the appointment of two gentlemen who are esteemed members of the profession to which I have the honour to belong. But sometimes, one has to say unpleasant things from a sense of duty, and this is one of those occasions.

In order to explain to the Senate the whole situation, I would ask them to refer to the Proceedings of the Executive Committee of the Council of Post-Graduate Teaching in Science, dated the 11th June, 1919. On the first page of the Proceedings would be found a resolution which was as follows:—

RESOLVED—

That the following gentlemen be appointed University Lecturers in Zoology for the session 1919-20:—

Professor S. Maulik, B.A. (Cantab.)
Mr. K. Mitter, B.A. (Wis.)
Babu Bharatchandra Dhar, M.A.
Dr. Harihar Ganguli, M.D.

RESOLVED FURTHER—

That an honorarium of Rs. 100 a month be paid to each of the gentlemen named above (except Prof. Maulik) with effect from 1st July, 1919.

On the 5th July, these Proceedings came up before the Council of Post-Graduate Teaching in Science for confirmation,

of the Senate that the study of Zoology should begin within the domain of this University ?

The Hon'ble The Vice-Chancellor: At this late stage I do not wish to detain the Senate for a long time, but I suppose I owe an explanation as regards the slight inaccurate statement that has fallen from the lips of my friend opposite. I understood the Rai Bahadur to say that it was admitted at a certain meeting that though these men were not competent, yet they would be good enough as professors for the present. This was never the situation and I never said so. What I said was that it was quite possible to conceive of men with higher qualifications, but these men were quite competent; and men with higher qualifications were not forthcoming.

The question has been raised whether four men would be too many to teach two students. Zoology, like any other subject, requires an irreducible minimum in the staff of teachers. And so far as I can see it is impossible to start a class for teaching Zoology, particularly in the higher stages, with less than four men. It would be an impossibility, considering the number of subjects to be taught, to start a Post-Graduate class in Zoology with a small number of teachers.

The amendment was put to the vote and lost, 2 voting for and 30 against it.

The motion was then put to the vote and carried.

The next two items were—

6. To confirm the Proceedings of the Council of Post-Graduate Teaching in Arts, dated the 13th August, 1919.

7. To confirm the Proceedings of the Council of Post-Graduate Teaching in Science, dated the 16th August, 1919.

The Hon'ble Sir Asutosh Mookerjee asked for leave to move Items 6 and 7 together.

Leave was given.

The Hon'ble Sir Asutosh Mookerjee moved that the Proceedings of the Council of Post-Graduate Teaching in Arts, dated the 13th August, 1919, and the Proceedings of the Council of Post-Graduate Teaching in Science, dated the 16th August, 1919, be confirmed.

He said :—The former of these Proceedings contains on pages 30 to 76 a report on the work of the Post-Graduate Council in Arts for the session 1918-19, while the latter contains on pages 11 to 28 a report on the work of the Post-Graduate Council in Science for the same period.

The University of Calcutta & Acharya P.C.Ray 1906-1944

the Hon'ble Raja Kirtananda Singh of Baneli and members of his family have come forward with an offer to establish for a term of six years, a lectureship in Maithili, chiefly for purposes of research. Babu Tonkanath Chaudhuri of Dinajpore, another of our graduate zemindars, has followed with an offer to establish another lectureship in Maithili for purposes chiefly of instruction. Members of our staff, noted for their learning, ability, zeal and devotion, such as Babu Susilkumar De and Babu Sunitikumar Chatterjee have come forward with valuable monographs on Bengali Language and Literature which will materially assist study and investigation in this department of study; while Babu Dineschandra Sen has really embarrassed the University Press by his prolific works which we have not yet been able to publish. These phenomenal developments, I assert without hesitation, inspire hope and confidence in the future. Let me pass on for a moment to the work which has been accomplished in the scientific subjects. Mr. Surendramohan Ganguli has published a valuable treatise on the theory of Plane Curves, which will do credit to any centre of mathematical learning. The Bulletin of the Calcutta Mathematical Society abounds in original papers contributed by members of the University staff in Pure and Applied Mathematics and their numerous research students. Dr. Cullis, Dr. Sudhansukumar Banerjee, Babu Bibhutibhushan Dutt, Babu Nikhilranjan Sen

The University of Calcutta & Acharya P.C.Ray 1906-1944

figure prominently in this connection. But our workers have not been content with contributions to local publications like the Bulletin of the Calcutta Mathematical Society, the Bulletin and Memoirs of the Indian Association for the Cultivation of Science and the Journal of the Asiatic Society of Bengal. Their contributions figure prominently in Journals of the highest standing in Europe and America ; this is most emphatically true of the members of the Physics and Chemistry Departments. The Philosophical Magazine, the Physical Review, the Astrophysical Journal, the Journal of the Chemical Society of London, the Journal of the American Chemical Society and last but not least the Proceedings of the Royal Society of London have, during the last twelve months, published numerous papers on a variety of subjects by our teachers and students. Indeed, one enterprising member of our staff in Applied Mathematics had his contributions accepted on the one hand by the American Journal of Mathematics and on the other by the Tohoku Journal of Mathematics in Japan. The researches of Prof. C. V. Raman, Dr. Sudhansukumar Banerjee, Dr. D. N. Mallik, Babu Phanindranath Ghosh, Dr. Meghnad Saha, Babu Satyendranath Bose, Babu Sisirkumar Mitra and of their assistants and research students, in the domain of Physics, have made their names familiar and have secured for their views respectful consideration in academic circles in

The University of Calcutta & Acharya P.C.Ray 1906-1944

Europe and America. In Chemistry, the researches of Sir P. C. Ray, Dr. P. C. Mitter, Dr. R. L. Dutt, Dr. J. C. Ghosh, Dr. B. B. Dey and their assistants and research students have helped not merely to maintain but also to advance the reputation of the Calcutta School of Chemistry founded by Sir P. C. Ray. In Botany and in Geology, though opportunities for work have been of a very limited character, members of our staff have contributed important papers. Indeed, contributions by members of our staff are now so prolific that we have undertaken the publication of two Journals, one for the Department of Letters, the other for the Department of Science. The first volume of the Journal of the Department of Science has already been published and contains contributions in Chemistry, Physics, Mathematics and Botany. The second volume is in the Press, and if the Press could cope with the work, we could publish at least two other volumes immediately. The first volume of the Journal of the Department of Letters is in the Press and it is a source of disappointment to our lecturers that the Press is not able to expedite the work of publication.

I shall not detain you longer with a review of the work of the two Councils of Post-Graduate Teaching in Arts and Science. I venture to affirm without hesitation that the work is stupendous; nothing like this has ever been achieved or even attempted in any Indian University. Our difficulties are enormous. We suffer from

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1920.

No: 2

THE 3RD JANUARY, 1920.

Present:

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.,
Vice-Chancellor, in the Chair.

The Hon'ble Mr. W. W. Hornell, C.I.E., M.A.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.

The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., B.L.

Mr. Herambachandra Maitra, M.A.

Lt. Col. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D., I.M.S.

Mr. Adharchandra Mookerjee, M.A., B.L.

Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.

Dr. R. Stephen, M.A., D.D.

R. Heaton, Esq.

Dr Kedarnath Das, C.I.E., M.D.

G. C. Bose, Esq., M.A., M.R.A.S.

J. N. Das Gupta, Esq., B.A., (Oxon), Bar-at-Law.

Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

J. C. Ghosh, Esq., M.A.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Rai Saheb Dineschandra Sen, B.A.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

J. R. Banerjea, Esq., M.A., B.L.

Mr. Birajmohan Majumdar, M.A., B.L.

The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur, C.I.E.

Lt. Col. Sir H. Deare, M.B., D.P.H., M.R.C.P., I.M.S.

Rev. Father F. X. Crohan, S J.

Dr. Hiralal Haldar, M.A., Ph.D.

Mr. Satischandra Ray, M.A.

Rev. Dr. J. Watt, M.A., D.D.

T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E.

Rai Bhupathnath Das, Bahadur, M.A., B.Sc.

Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.

Dr. Dwarkanath Mitter, M.A., D.L.

Rev. Dr. W. S. Urquhart, M.A., D.Phil.

Mr. Manmathanath Ray, M.A., B.L.

Mr. Charuchandra Biswas, M.A., B.L.

Prof. D. R. Bhandarkar, M.A.

The Hon'ble Mr. Kamininkumar Chanda, M.A., B.L.

The Hon'ble Surgeon General W. H. R. Robinson, C.B., I.M.S.

Rai Abinaschandra Bose, Bahadur, M.A.

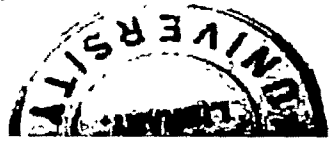
K. L. Dutta, Esq., M.A., F.S.S., F.R.E.S.

Dr. Harendracoomar Mookerjee, M.A., Ph.D.

Mr. Pramathanath Banerjea, M.A., B.L.

Khan Bahadur Ahsanullah, M.A.

Aga Md. Kasim Shirazi.



The University of Calcutta & Acharya P.C Ray 1906-1944

The first item was as follows:—

The Syndicate to recommend to the Senate that the munificent gift of Sir Rashbehary Ghose, Kt., C.S.I., C.I.E., be gratefully accepted.

The following is a copy of his letter, offering to make over to the University three and a half per cent. Government securities for Rs. 11,43,000 on conditions specified therein:—

"SANS SOUCI"
ALIPORE, CALCUTTA,
The 22nd December, 1919.

THE HON'BLE SIR NILRATAN SIRCAR, Kt., M.A., M.D.,
Vice-Chancellor of the Calcutta University.

DEAR SIR,

About six years ago I made over to the University ten lakhs of rupees in aid of the University College of Science for the promotion of Scientific and Technical Education and for the cultivation and advancement of Science, Pure and Applied, amongst my countrymen. I understand that although that sum has enabled the University to arrange for instruction and research in Pure Science, the University has not been able, from lack of funds, to make a similar advance in Applied Science. I have accordingly decided to place at the disposal of the University a further sum, namely, three and a half per cent. Government Securities for Rs. 11,43,000, which will produce an annual income of Rs. 40,005 to be applied exclusively for purposes of technological instruction and research. This sum will be held by the University as an integral part of the original gift, and, all the conditions mentioned in my letter of the 8th August, 1913, shall apply, subject to the following modifications:

First: That two new University Professorships or Chairs (in all respects subject to the same conditions as mentioned in my letter of the 8th August, 1913) be established, one for each of the following subjects:

(*e*) Applied Chemistry.

(*f*) Applied Physics.

Note.—By 'Applied Chemistry' I mean one or more of the following subjects, as suggested in the report of the Calcutta University Commission:

Color Chemistry, preparation of dyes, drugs and photographic chemicals, tanning, fermentation, gas and coal-tar industries and oil industry,

or such other subject or subjects as may from time to time be determined by the Board of Management.

By 'Applied Physics' I mean one or more of the following subjects, as suggested in the report of the Calcutta University Commission :

Electrotechnology : applied thermodynamics and the standardisation of instruments,

or such other subject or subjects as may from time to time be determined by the Board of Management.

Secondly : That four additional studentships (in all respects like those mentioned in my letter of the 8th August, 1913) be established, two such students to be attached to each of the Professors mentioned above.

Thirdly : That the balance which will remain out of the annual income of the fund, which is likely to exceed Rs. 24,000, after payment of the salaries of the Professors and studentships, should be applied to the equipment and maintenance of the necessary Laboratories, Museums and Workshops, the adequate provision for which is absolutely necessary, and for which sufficient money might not be available from other funds at the disposal of the University.

Fourthly : That the Board of Management do include the Professors of Applied Chemistry and Applied Physics in the same way as the other four Professors mentioned in my letter of the 8th August, 1913.

On receipt of intimation that the Senate has accepted my offer, I shall arrange for the transfer of the securities to the University.

Yours truly,

RASHBEHARY GHOSE.

THE HON'BLE THE VICE-CHANCELLOR: This special meeting of the Senate has been called to consider a letter from Sir Rashbehary Ghose offering to the University a gift of the face value of Rs. 11,43,000 for purposes of specified training.

Very few words are needed in order to commend this matter to the consideration of the Senate. It goes without saying that we should be extremely grateful to Sir Rashbehary Ghose. But I do not think that it would be of much use to the donor if we simply told him that we are grateful to him. We can, however, materialise our gratitude to him in another way, that is, by working hard on the lines suggested by him and on the object which he has specified in his letter. Of course the two donations of Rs. 11,43,000 which he has now offered, and Rs. 10,00,000 which he favoured us with about five years ago, will not enable us to give effect to what is required in connection with the studies of applied sciences in this University; it will require a huge sum. We have been handicapped in many ways and up to the present time we have not had anything from Government in this connection. I hope better days are coming and we may have substantial help from Government. But, even before that, it will be desirable to make a beginning in this direction. We have already started a nucleus in the Science College for the study of subjects with regard to some of which Sir Rashbehary Ghose's donations will help us to make some sort of arrangement. But the Science College, for its development, will require the support of the Senate, the Government and the people in various ways.

I will now call upon Sir Asutosh Mookerjee to move the resolution and to favour the Senate with a statement.

THE HON'BLE SIR ASUTOSH MOOKERJEE: I beg to move the acceptance of the unanimous recommendation of the Syndicate that the munificent gift of Sir Rashbehary Ghose be gratefully accepted. Sir Rashbehary Ghose, the prince of Calcutta graduates, who six years ago earned our everlasting gratitude by a gift of 10 lakhs of rupees, has now made the princely offer to add to his previous endowment, a sum of Rs. 11,43,000. Logic and eloquence are equally superfluous to justify the acceptance of this truly munificent offer. It would be inappropriate in the highest degree if I, his pupil, were to use language with regard to my revered Master, which might bear the semblance even of patronising commendation of his great achievement as the foremost benefactor of our University. I need only say that in all humility, I feel it a real privilege to be called upon to associate myself with the adoption of the motion which the Syndicate has recommended on this historic occasion. To us all, it is a source of infinite joy that by the liberality of Sir Rashbehary Ghose we are placed in a position to take one decisive step forward towards the accomplishment of what has been our avowed purpose for many years past, *viz.*, the establishment of a University College of Science and Technology. On this auspicious occasion, it is desirable however that we should pause for a moment and take stock of what has been accomplished, review the means which have enabled us to achieve some measure of success and make a forecast of what still remains to be faced in the immediate future.

I shall not take you back to the early years of this century when, upon the enactment of the Indian Universities Act, we designed to give effect to the purpose of the legislature, that this University should be a Teaching University, by the actual establishment of a University College of Science and Technology with attached Libraries, Laboratories and Museums. I shall not take you to the earliest years of hope deferred, but remind you of the stirring utterance of Lord Hardinge as Chancellor on the 16th March, 1912. Lord Hardinge in impressive words emphasised the importance of higher teaching in the University, and after referring to the stirring words which His Imperial Majesty had addressed to the members of the Senate, announced that the Government of India had decided to make an annual grant of Rs. 65,000 for the appointment of University Professors and Lecturers in special subjects and for the encouragement in other ways of higher studies and research. On the 29th March, 1912, Mr. Sharp—whose name figures largely in these transactions—addressed a letter to the Government of Bengal, intimating, for the information of the University, that a recurring grant of Rs. 65,000 had been made and that the object of the grants was to enable the University to make a definite step forward towards the realisation of the idea of a Teaching University for higher work and to improve the inspection of Colleges. The Syndicate intimated to the Government of Bengal that they were unanimously opposed to the appointment of an additional Inspector of

Colleges and they urged, instead, the creation of a Professorship of Chemistry in addition to the two other chairs of Mathematics and Philosophy which had been previously suggested. The Government of Bengal on the 31st July, 1912, strongly supported this proposal and expressed their concurrence with the opinion of the Syndicate that no provision need be made for the appointment of an additional Inspector of Colleges. Meanwhile, an event had happened which had, at the time, no parallel in the annals of University education in Modern India. On the 15th June, 1912, Mr. Taraknath Palit had executed his first Trust Deed in favour of the University, transferring money and land worth about 8 lakhs of rupees for the establishment of two Professorships, one of Chemistry, the other of Physics. The Syndicate accordingly modified its proposal that Rs. 12,000 out of the Imperial Grant should be applied for the foundation of a Chair of Chemistry and recommended that the sum should be devoted to the maintenance of the proposed Laboratory of the University College of Science. On the 18th September, 1912, Mr. Sharp intimated to the University that the Government of India had sanctioned the proposal of the University to apply Rs. 12,000 out of the Imperial Grant for the maintenance of a Laboratory in connection with Mr. Palit's benefaction. On the 8th October, 1912, Mr. Palit made a further gift of 7 lakhs. On the 30th December, 1912, the Syndicate addressed a letter to the Government of India for liberal financial assistance for the development of University work in

general and of the University College of Science in particular. I shall read out to you the second paragraph of this letter which has been laid on the table:

"The Government of India are no doubt aware that in the course of the last six months, Mr. T. Palit, Bar-at-Law, has made to the University a princely gift of money and property of the aggregate value of nearly 15 lakhs of rupees for the purpose of founding a College of Science and for the general improvement of scientific and technical education. Under the terms of the deeds of gift, the University is bound to maintain, from the income of the endowment, a Chair of Physics and a Chair of Chemistry and to institute a scholarship to be awarded to a distinguished graduate for the study of Science in a foreign country; the University is also bound to establish a laboratory for advanced teaching and research and to contribute towards this object at least two and a half lakhs of rupees out of its own funds. But this sum is quite inadequate for the establishment of a laboratory of the kind contemplated. The Vice-Chancellor and the Syndicate are anxious that the fullest advantage should be taken of this unique opportunity to establish a Residential College of Science in Calcutta and it appears to them that if the necessary funds are available, the object can be speedily accomplished without any difficulty. The properties vested in the University by Mr. Palit include, among others, two fine plots of land, one of 12 bighas and the other of 25 bighas in area. On the bigger plot there are two splendid three-storied houses, recently built, which are admirably suited to accommodate 200 students. If, therefore, adequate funds were forthcoming to erect and equip the requisite laboratories and Professors' quarters on this plot, a Residential College could be set up in working order in the course of a year. The estimated cost of the project amounts to 15 lakhs of rupees, and the Vice-Chancellor and the Syndicate do not hesitate to ask the Government of India for a grant to the University of this sum. The gift of Mr. Palit is

The University of Calcutta & Acharya P.C Ray 1906-1944

absolutely unique in the history of University education in this country, and they feel sure that the Government of India will be glad to supplement it by an at least equal amount to enable the University to carry out the scheme in its entirety, especially in view of the fact that the University has already agreed to contribute 2½ lakhs out of its own very limited savings. I am desired to add that a sympathetic and generous attitude on the part of the Government of India towards the object which Mr. Palit had at heart, cannot fail greatly to influence public sentiment and may not improbably induce other wealthy gentlemen to found similar endowments for the encouragement of higher teaching." (This and the other documents mentioned later, are set out at length in the Appendix).

On the 14th January, 1913, Mr. Sharp sent a reply which may, I hope without impropriety, be characterised as diplomatic :—

"The Government of India are not yet aware what grants, if any, they will be able to assign for education during the ensuing financial year. But I am to say that the requests of the Calcutta University will receive consideration in conjunction with the claims of other Universities and other branches of education."

Friends and workers of the University anxiously waited and watched, but their expectations were doomed to disappointment; we now know what forces were silently at work behind the scenes against the realisation of our aspirations. But our good fortune had not come to an end. On the 8th August, 1913, Dr. Rashbehary Ghose offered to place at the disposal of the University a sum of 10 lakhs of rupees in furtherance of the University College of Science and for the promotion of scientific and technical education by the establishment of four Professorships of Applied Mathematics, Physics, Chemistry and Botany with special reference to

Agriculture. The Syndicate, encouraged by this munificent gift,—a token of the confidence reposed in the University by one of the greatest of the sons of India—felt undaunted by the treatment which had been extended to their previous application for a grant from the public funds. On the 4th October, 1913, the Syndicate again addressed a letter to the Government of India and pressed for a substantial grant in aid of the University College of Science. I shall read to you the second paragraph of this letter:

"In our letter, dated the 30th December, 1912, the first place was assigned to the scheme for the establishment of a University College of Science for the promotion of higher teaching in different branches of Physical and Natural Science. The Syndicate pointed out that in furtherance of this object Sir Taraknath Palit had made a gift of money and land to the extent of 15 lakhs of rupees and that the University had undertaken to supplement this unique gift by a contribution of two and a half lakhs from its limited Reserve Fund. The Syndicate entertained the hope that under these circumstances the Government of India might suitably supplement and thereby accord recognition to this princely gift, but they were disappointed to find that money was not available for this purpose. Since then Dr. Rashbehary Ghose has made a gift of 10 lakhs of rupees for the foundation of Professorships and Studentships in connection with the proposed University College of Science. The Syndicate venture to urge upon the Government of India that a claim has now been fully established for a generous contribution from the State in furtherance of the University College of Science. They further desire me to point out that the foundation of a University College of Science for Post-Graduate Studies and Research is one of the foremost needs of the University. There is only one College, namely, the Presidency College, which is affiliated in Physics and Chemistry up to the standard of the M.A. and M.Sc. Examinations, but it

The University of Calcutta & Acharya P.C.Ray 1906-1944

must be noted that the Presidency College, inspite of its new Laboratories, has very limited accommodation for Post-Graduate students and is not able to take in more than 10 students in Chemistry and 18 students in Physics every year. Apart, therefore, from the obvious importance of increased facilities for the scientific training of qualified students in this country, it is plain that there does not exist in this University adequate provision for the training of the numerous lecturers and demonstrators required for the efficient management of the Colleges affiliated in scientific subjects. In our letter of the 30th December, 1912, it was stated that the estimated cost of the project for the establishment of a University College of Science was 15 lakhs of rupees; the Syndicate have carefully reconsidered the matter and have come to the conclusion that a smaller sum would not be sufficient to secure that efficiency for the institution, which must, for obvious reasons, be its principal characteristic. The laboratory building, of which the plans are ready, will cost at least 5 lakhs of rupees; the Hostel which is proposed to be attached to it, will cost not less than 2 lakhs of rupees; the equipment will, on the most moderate estimate, cost 5 lakhs of rupees; a suitable scientific library cannot be created for less than 2 lakhs of rupees, if complete sets of important periodicals and publications of learned societies have to be brought together, while at least 1 lakh will be required for additional land. It is not suggested that the whole of this money, if available, may be utilised in the course of twelve months, but it is eminently desirable that an idea should be formed of the minimum requirements of the entire scheme which it may take two or possibly three years to complete."

On the 27th November, 1913, Mr. Sharp replied to Dr. Brühl that the Imperial funds available for education that year had already been allotted. I shall not pause to comment on this wonderful reply. On the 4th December, 1913, Dr. Brühl pointed out that the Syndicate had no intention to ask for a grant

out of the funds available during the then current financial year; but that their object was to place before the Government, as early as October, a statement of their pressing needs so as to enable the Government to take it into consideration when framing its budget estimates for the next following year. On the 23rd December, 1913, Mr. Sharp replied that when funds were available, the request of the University for further grants for higher teaching would be considered in conjunction with other demands.

The true significance of the situation thus disclosed became patent to all, when the Government, though twice approached, failed to respond in the remotest degree to the request of the University for liberal financial assistance to supplement the munificent gifts of Sir Taraknath Palit and Sir Rashbehary Ghose. Even the most optimistic amongst the members of the Senate—people who had an unalterable faith in the sense of justice of the Secretariat—felt that for the present, at any rate, the University must rely upon its own resources unaided by public funds. The foundation stone of the building designed for the University College of Science was accordingly laid on the 27th March, 1914, and the University proceeded to meet the cost of erection from the Reserve Fund, formed out of the surplus of examination fees realised from candidates of all grades in different stations of life from every corner of the Province. Unforeseen difficulties however arose. The outbreak of the War led to a phenomenal depreciation of the Government Securities in which our Reserve Fund had been invested.

Accordingly, on the 1st December, 1914, the Syndicate courageously applied to the Government for a temporary loan against these securities as their sale at the prices then current would entail heavy loss upon the University. On the 16th March, 1915, Mr. Sharp sent the not altogether unexpected reply. The application was refused and Mr. Sharp stated that the Government felt themselves unable to consider this or any other request regarding these matters, unless they received a clear statement of the general policy of the University in this respect and of the proposed College of Science in particular. Before this letter of Mr. Sharp, dated the 16th March, 1915, reached the University, the Syndicate had, on the 13th March, sent another application to the Government of India, describing the progress which had been made in the erection of the Building and the equipment of the Laboratories and emphasising the urgent need for a substantial grant in order that the work of the College might be commenced and carried on in a befitting manner. On the 19th June, 1915, Mr. Sharp sent a reply which, I venture to think, without disrespect to him, is one of the strangest documents which have ever emanated from the Secretariat. Mr. Sharp professed to entertain the view that the information as regards the College of Science available to the Government was particularly meagre. I shall read out to you the third paragraph of this letter :

"As regards the College of Science, the information before the Government of India is particularly meagre. They were not consulted before the terms of the bequests were settled or again before the building was commenced. It would be unusual

for Government to allot money for a particular scheme regarding the details and even the general intention of which they are ignorant. Before the present request can even be considered, the Government of India would require a full exposition of the scheme in general, of the nature and scope of the teaching to be provided, the staff and establishment to be appointed, the accommodation required for students and professors and other similar details; a statement of the steps already taken towards the establishment of the College and the cost of such steps; and finally a full financial statement showing in detail the cost, capital and recurring, which the establishment of the College is estimated to involve and the assets available, whether in the shape of endowments, existing grants from Government, or the resources of the University."

It is impossible to appreciate the justice of this complaint. In the letters of the 30th December, 1912, and the 4th October, 1913, the scope and purpose of the University College of Science had been outlined and Mr. Sharp himself had replied on at least two occasions that the requests for financial assistance would be considered when funds became available. We must further remember that full information on the subject of the two great endowments for the foundation of the College of Science were available in the published proceedings of the Syndicate and the Senate which were regularly transmitted to Head Quarters and were, as could be gathered from some other incidents, minutely scrutinised there. Consequently the position taken up in the replies of Mr. Sharp, dated the 16th March and 19th June, 1915, furnishes, in my opinion, a psychological problem worthy of investigation by distinguished students of Theoretical and Experimental Psychology. The Syndicate, however,

solemnly sat down to draw up a statement regarding the general policy of the University in respect of the University College of Science. This valuable document was transmitted to Simla on the 26th June, 1915, and I am prepared to assert without hesitation that the statement conveyed no information to Mr. Sharp which was not previously known to him. A few days later, on the 1st July, 1915, the Syndicate transmitted to Simla another elaborate letter reviewing the whole history of the development of Post-Graduate instruction in the University. On the 14th October, 1915, Mr. Sharp replied and the substance was—refusal. The financial stringency created by the War was mentioned, but Mr. Sharp could not resist the temptation to taunt the University in a sentence which will bear quotation here:

"As regards the College of Science, it appears that two public spirited citizens came to the assistance of the University with endowments to which certain conditions were attached; the University accepted these endowments and now finds that it is unable without assistance to comply with the terms involved in them."

The Syndicate however were undaunted—I shall not pause to consider whether this was due to a conviction of the righteousness of their cause or of the possibility that Mr. Sharp might be moved to alter his attitude of determined hostility towards the University. On the 27th November and 7th December, 1916, they addressed further letters pressing the claims of the University College of Science and the other teaching departments of the University on the attention of the authorities. These appeals,

The University of Calcutta & Acharya P.C.Ray 1906-1944

like those that had preceded them, fell on deaf ears, and no reply was vouchsafed by Mr. Sharp till the 9th August, 1917, when a convenient opportunity had arisen to justify a fresh refusal. I will quote the letter for your edification :

"In reply I am to say that the Government of India propose to defer consideration of the question of granting financial assistance in this connection to the University, pending receipt of the recommendations of the proposed Calcutta University Commission."

What then is the lesson to be learnt from this retrospect? We have struggled for more than seven years to establish a University College of Science and Technology which shall be the pride, not of Bengal alone, but of all India. Two of the noblest of my countrymen have been unstinted in their liberality in the furtherance of this cause. With unbounded generosity they have given away their wealth—not their inherited patrimony, not money amassed by the fortunes of speculation—but the savings of life-long toil as members of the legal profession. We have repeatedly approached the custodians of the public funds, but we have met with steady and persistent refusal. But our good fortune has not yet deserted us. Though Sir Taraknath Palit has passed away, Sir Rashbehary Ghose is still amongst us, and he has come forward, with a nobility of soul unsurpassed amongst the promoters of education in Modern India, to place at the disposal of his Alma Mater a sum of Rs. 11,43,000. He at any rate has confidence in the University. We have devotedly struggled to promote the cause which is so dear to him, *viz.*, to

The University of Calcutta & Acharya P.C.Ray 1906-1944

promote Scientific and Technical education, the cultivation and advancement of Science, Pure and Applied, amongst our countrymen. We have made a steady, though not rapid, progress. Since the foundation of the College we have had departments of Applied Mathematics, Physics, Chemistry and Botany at work. We have spent Rs. 7,87,737 out of our current income, Rs. 1,35,910 out of the income of the Palit Fund and Rs. 1,51,860 out of the income of the Ghose Fund in the construction of the Laboratory Buildings and in their equipment. But we still require ample funds to enable us to undertake instruction and research in Technology. The gift of Sir Rashbehary Ghose will enable us to create a Chair of Applied Chemistry and a Chair of Applied Physics. But we require a great many more of such chairs. Imagine the vast field to be covered—Commercial Organic Analysis, Paint, Polish and Varnish, Oils and Fats, Leather, Textiles, Colour Chemistry, Coal-tar products, Ceramics, Foods and Drugs, Fuel, Metallurgy, Electro-plating, Paper, Glass, Manures and a host of others. Let us therefore not be over-elated by the munificence of Sir Rashbehary Ghose. The field of our activities is boundless. Let Bengal realise this and let every citizen follow in the footsteps of our great leader though at a respectful distance. I feel no doubt that a fervent prayer will go forth from all members of this University that our benefactor may have a long and peaceful life.

MR. J. R. BANERJEA: I have great pleasure in seconding the motion before the Senate. The name of

Sir Rashbehary Ghose has shed great lustre on the the Annals of this University. I will not enumerate his great services to the University, which are well known. But I may suggest in passing that in whatever capacity he has served the University, he has served it conspicuously and in a splendid manner; as Tagore Professor of Law, as President of the Faculty of Law, as a member of the Senate for years, and as a member of the Syndicate for some time, he rendered conspicuous services to this University. But I feel that in one sense he has really surpassed all his past services by this most munificent gift. Sir Rashbehary Ghose is a man with an eminently practical turn of mind and he therefore thinks that the University must keep pace with the demand and the growing needs of our day so that it may be brought into line with the modern Universities of Europe and America He has awaked up to the great fact that provision must be made for technological instruction and research. And it is therefore that I say that this last service of his must certainly be counted as the most splendid. In view of the fact that the University must keep pace with the times, in view of the requirements of the times, in view of the fact that there ought to be openings for our young men, and in view of the fact that Sir Rashbehary Ghose regards his life and his money as a trust in the interests of the country to which he belongs, this most splendid gift that he has made is a gift which is most welcome.

The mover of the resolution has stated very pointedly that we should not be over-elated for this gift. I

The University of Calcutta & Acharya P.C.Ray 1906-1944

should say, however, that there is one aspect of the matter which we ought not to lose sight of. This gift is really unprecedented in the annals of this University. Andwhen we consider that aspect of the matter, I feel over-elated when thinking of this gift. I look upon it as an earnest of the gifts which will be made by other citizens in years to come in furtherance of the great cause to which the University is committed, so that a great college in which technology will be taught on right lines will be developed.

REV. DR. J. WATT: I associate myself with the mover and seconder of the motion before the Senate. The mover of the resolution spoke of some psychological mystery which was at the back of what has been happening during the past years. I am not sure that there is anything mysterious about it. We know only too well from experience in other lands that there are people who are entirely blind to the value of science, especially of such science as is proposed to be advanced by the former and present gifts that have been made to the University. And indeed I am not sure that many of us who had been brought up in some of the older schools of education might not have thought that it was a waste of the best energy on the part of men to toil for such purposes. Is it not possible that this might be at the back of the psychological mystery? But there is one thing certain. The mover has asked us, what is the lesson that ought to be learnt from this. I think he has partially answered his question. We must see to it that we turn out men from the College

of Science who will have power in future Governments and with the men who will manage Governments in the days that are to come in such a way that they shall understand the value of science.

DR. HIRALAL HALDAR: I deem it a privilege to support this motion. It is difficult to express in adequate language one's feeling of admiration for such a splendid deed of beneficence. Sir Rashbehary Ghose is a great lawyer, a great scholar, and a distinguished leader of public opinion. But Bengal will remember him not for these alone, but for his princely gifts to this University. He and the late Sir Taraknath Palit, will live in the history of this country as the men who first made systematic and continuous researches in Science and the application of the results of them to the future industries of the country possible. Sir we live, in this part of the world at any rate, in an age when patriotism and self-sacrifice have become somewhat different from what they once were. Make violent speeches, foment race hatred, play to the gallery and you become a patriot. As for self-sacrifice it consists in managing to be always in the lime light. That being so what name, I wonder, is to be given to the virtue which finds expression in such a splendid deed of beneficence.

The gift of Sir Rashbehary Ghose has value not only for what it will enable the University to do in the matter of scientific education but also as an example to other wealthy men like him. It is an invitation to them to follow in his footsteps. Though science rightly looms large in our estimation now a days, the importance of arts subjects is not less and

their requirements are not less urgent. We all know what wonders Sir Asutosh Mookerjee has done with the slender resources at his disposal. What might he not have done if his hands were not tied by lack of funds? Is it too much to hope that before being dissolved in consequence of the impending changes, the Senate will have the pleasure of accepting another munificent gift made by some one inspired by the noble example of Sir Rashehary Ghose for the endowment of chairs in arts subjects.

LT.-COL. SURESPRASAD SARBADHIKARI: The unanimity of feeling which pervades this debate is so manifest that but few words are necessary for the support of the resolution. I, therefore, propose at this stage that we mark this occasion by passing the resolution standing.

THE HON'BLE MR. W. W. HORNELL: I entirely approve of the proposal of the last speaker. I do not consider the present occasion an opportune one for attempting to follow the heated controversy of correspondence which the mover of the motion has told us of. But I do wish to associate myself and the department of which I am the head most heartily in what has been said with reference to the munificent gift and its value to the University of Calcutta and the development of Bengal. I think we should take to heart the lessons so ably put before us by Mr. J. R. Banerjea. I do not think that any one who has studied the position as fully as I had to while on the University Commission, could regard this gift as enabling the University to do anything more than make a small beginning of

the great work which it is undoubtedly called upon to perform in connection with scientific help, without which the industries of this Presidency cannot be developed. And I think that it is well to remember that it is always the beginning of this kind of work which is the most difficult. If you study the history of the development of the modern Universities of England, you will find that once they had established themselves as being useful, nay essential to the development of the industries of the neighbourhood, then they had no difficulty in getting money. The tremendous development in the Leeds University, which is presided over by Sir Michael Sadler, is due entirely to the fact that the Woolen Manufacturers found that the research work done in the laboratories of the University was absolutely essential to their progress. If we can establish ourselves in this way we shall not be in want of funds, for the industrial development of India is going to be the great feature of the next decade.

KHAN BAHADUR AHSANULLA: As a member of the Muhammadan Community, I wish to give my support to the motion for accepting the munificent gift of Sir Rashbehary Ghose who has rendered eminent services to the country by providing facilities for studies in a branch which has up till now received but little attention.

The motion was carried unanimously, all present standing.

THE HON'BLE SIR ASUTOSH MOOKERJEE moved, on behalf of the Syndicate—

1. That the gift of Rs. 4,60,000 and of the land

and houses known as 3, Camac Street, made by Kumar Guruprasad Singh of Khaira, subject to the life-interest of Rani Bageswari Debi, be accepted on the condition mentioned in the Decree of the High Court.

2. That steps be taken to transfer the reversionary interest of the University in the subject matter of the gift to Rani Bageswari Debi for a sum of six and a half lakhs of rupees.

The mover said: From the Minutes of the Syndicate, dated the 24th December, 1919, which have been circulated, it will be found that Kumar Guruprasad Singh of Khaira has made a valuable gift to this University, subject to the life interest of his wife, in the subject matter of the gift, which consists of Rs. 4,60,000 in cash and the land and houses known as 3, Camac Street. The Rani is entitled to the use of this fund for her life time and the property will be available to the University after her death. The purpose for which the money is to be applied has not been stated by the donor, but he has stated that the ultimate use of the fund is to be carried out by the University under the direction of and according to a scheme to be framed by myself. The lady, I understand, is about thirty. In the normal course of events she may live another thirty or forty years, and the use of this fund may not come to the University during the present generation, or possibly for two generations. The legal advisers of the lady, however, approached the University, and they are anxious to obtained a transfer of our reversionary interest on payment of cash. And

after negotiations they have offered us Rs. 6,50,000 in cash. The Syndicate have come to the conclusion that this would be advantageous from the point of view of the University. In the first place, we shall have the immediate use of the money, which during the next thirty or forty years may be of untold good to the country. In the second place, the price of the securities at the present moment is such that the sum of Rs. 6,50,000 can be invested in three and half per cent. securities of the nominal value of Rs. 11 lakhs. We shall thus have an income of over Rs. 35,000 a year from this fund, and that income will be immediately available. I have not as yet prepared a detailed scheme. But I may tell the Senate that I have decided that the money should be applied for the promotion of technological studies and research and that it should be associated with the great gifts of Sir Rashbehary Ghose and Sir Taraknath Palit.

DR. DWARKANATH MITRA seconded the motion.

PRINCIPAL G. C. BOSE said that he was very glad to hear that the money would not be diverted to any other work, but would be devoted wholly and solely to Post-Graduate studies in the development of the industrial activities of the country, which had the first demand on every one in Bengal.

The motion was carried unanimously.

(Confirmed.)

NILRATAN SIRCAR, *Vice-Chancellor.* J. C. GHOSH, *Registrar.*

APPENDIX

Documents referred to in the Speech of The Hon'ble Sir Asutosh Mookerjee

Extract from the Convocation Address of His Excellency Baron Hardinge of Penshurst, Chancellor, dated the 16th March, 1912.

"I cannot regard the present facilities for higher studies as at all sufficient, when not a few students who wish to take the Degree of Master of Arts have to be turned away for want of accommodation. That our students are capable of higher work I have no doubt. I am informed that three Research Studentships on the Premchand foundation have recently been awarded for theses on Mathematics, Chemistry and Indian Antiquities, all of which were pronounced by the examiners to evince special merit. The awards which have been made of the Coates Memorial Prize and the Darbhanga Memorial Scholarship indicate that there are capable men, able and willing, in the Medical Faculty to carry on research work. In addition to this, the large number of essays submitted for the Griffith Memorial Prize makes it patent that many of our graduates are engaged in advanced study and research work. It is very important that we should turn out good M.A.'s in sufficient numbers. Otherwise it will be difficult to find capable lecturers for our colleges, or to provide adequately for research."

Impressed by these considerations, which are not peculiar to the Calcutta University, and remembering the stirring words which His Imperial Majesty addressed to the members of our Senate, the Government of India have decided to make a solid advance in the direction of teaching and residential Universities. They have allotted a recurring grant of 3 lakhs a year, of which the Calcutta University will receive Rs. 65,000 a year, for the appointment of University Professors and Lecturers in special subjects and for the encouragement in other ways of higher studies and research."

Extract from the Hon'ble Mr. H. Sharp's letter No. 745, dated the 29th March, 1912, to the Secretary to the Government of Bengal, General (Education) Department.

"I am directed to state that the Government of India have decided to make a recurring grant of Rs. 65,000 and a

non-recurring grant of 4 lakhs of rupees to the Calcutta University for development of University work.

2. The object of the grants is to enable the University to make a definite step forward towards the realisation of the idea of a teaching University for higher work and to improve the inspection of Colleges. I am to request that the Calcutta University may be invited to submit their proposals for the expenditure of these sums with the least possible delay, and that the Government of India may be favoured with the views of His Excellency the Governor in Council on these proposals."

Extract from a letter from the Registrar to the Secretary to the Government of Bengal, General Department, No. 6605, dated the 26th April, 1912.

"I have the honour, by direction of the Hon'ble the Vice-Chancellor and Syndicate to acknowledge the receipt of your letter No. 7 T-G, dated the 11th April, 1912, with which you forward copies of letters Nos. 744 and 745, dated the 29th March, 1912, from the Government of India in the Department of Education, having reference to the foundation of professorships in the University of Calcutta and the distribution of a recurring grant of Rs. 65,000 and a non-recurring grant of Rs. 4,00,000 for the development of University work and in which you request that the Government of Bengal may be furnished with the views of the Vice-Chancellor and the Syndicate on the proposals of the Government of India * *

As regards the remaining balance of Rs. 12,000 the Syndicate have considered two alternative proposals, *viz.*, the appointment of an additional Inspector of Colleges, and the foundation of another professorship.

As regards the former alternative, the Syndicate are unanimously of opinion that an additional Inspector is not needed at present and that, at any rate, no step should be taken in that direction until the scope of the proposed University at Dacca is definitely settled. Should the new University take away from the jurisdiction of the Calcutta University some of the more distant colleges, the work of inspection would be easily carried on with one Inspector; and should further a separate University be ultimately established for the new Province of Bihar and Orissa, there would be no case whatever for the appointment of a second Inspector of Colleges.

As regards the second alternative, *viz.*, the creation of another professorship, the Syndicate incline towards the opinion that a professorship of Chemistry might with great advantage be immediately founded. In recent years the need for the establishment of a University laboratory has been strongly felt, as the

number of candidates who have to be practically examined in Physics and Chemistry has steadily increased. One objection which has been repeatedly urged against the establishment of a University laboratory is that if it should be devoted solely to examination purposes, no work would be done there during the greater part of the year. But this difficulty would be met if a professorship of Chemistry were found in connection with the laboratory, the professor doing, and training students in, research work. Should this proposal meet with the approval of the Government of India, the Syndicate would be prepared to acquire, from their own funds, land at some distance from the Senate House (where such acquisition can be made on reasonable terms) and to establish a University laboratory."

Mr. (afterwards Sir) Taraknath Palit executed his first Trust Deed in favour of the University on the 15th June, 1912, establishing two Professorships, one of Chemistry and the other of Physics. (Trust Deed printed in the University Calendar).

Extract from a letter of the Government of Bengal, No. 1188 T-G, dated the 31st July, 1912, to the Joint Secretary to the Government of India, Education Department.

I am directed to refer to your letter Nos. 744 and 745, dated the 29th March, 1912, on the subject of certain questions which have arisen in connection with the Calcutta University. * *

The recommendations of the Hon'ble the Vice-Chancellor and the Syndicate are contained in the Registrar's letter No. 6605, dated the 26th April, 1912, a copy of which is submitted for the information of the Government of India. The Governor in Council before submitting his opinion on the important questions there raised, thought it desirable to arrange for a personal discussion of the whole question with Sir Asutosh Mookerjee. It also appeared that the Syndicate desired to modify their proposals in some respects, in consequence of the munificent endowment recently given by Mr. Palit for the development of scientific teaching in the University. The whole question was discussed with the Vice-Chancellor during the recent visit of the Governor of Bengal to Calcutta and I am now to submit the opinion of the Governor in Council on the proposals made by the University. * * * * *

As regards the remaining balance of Rs. 12,000, the Syndicate have considered two alternative proposals—the appointment of an additional Inspector of Colleges and the foundation of another professorship. They are unanimously of opinion that an additional Inspector is not needed at present, and that no step should be taken in that direction until the scope of the proposed University at Dacca is definitely settled

It is added that, should a separate University be ultimately established for the new Province of Bihar and Orissa, there would be no case whatever for the appointment of a second Inspector of Colleges. As the Government of India are aware, the present intention is that the Dacca University should be a teaching and residential University confined in its functions to the town of Dacca and the neighbourhood. It will therefore reduce the activities of the Calcutta University to a comparatively small extent, but the Governor in Council is prepared to accept the view of the Syndicate that no additional Inspector of Colleges should be appointed for the present. The question was considered by the late Governments of Bengal and of Eastern Bengal and Assam, and the general conclusion arrived at was that while there are objections to the present system under which the inspection of Colleges is carried out partly by a whole time Inspector and partly by principals and professors of colleges, yet the inconvenience is not sufficiently great to justify the views of the University on this subject being set aside. There are, moreover, considerable advantages in having inspections carried out by officers who are themselves actively engaged in teaching, instead of leaving the matter to be dealt with entirely by officials whose sole duty it is to inspect. For these reasons, the Governor in Council agrees with the Syndicate that no provision need be made at present for the appointment of an additional Inspector of Colleges.

The Syndicate's original proposal was that the sum of Rs. 12,000 remaining after the distribution of the recurring grant on the lines suggested above, should be devoted to the establishment of a professorship of Chemistry. They now, however, desire to modify this proposal in view of Mr. Palit's recent donation, which will provide for a chair of Physics as well as for a chair of Chemistry. The present proposal of the Syndicate is that this sum of Rs. 12,000 should be applied for the maintenance of the laboratory which the University is about to establish in connection with Mr. Palit's benefaction. The income of Mr. Paliti's endowment will enable the University to maintain two chairs and will probably leave a very small margin. The maintenance of the laboratory, however, in its two departments of Physics and Chemistry, will cost a considerable sum, and the Governor in Council considers it reasonable that a contribution of Rs. 12,000 a year should be made from the Government grant for this purpose. This value of Mr. Palit's donation in property and money is estimated at seven lakhs. The University propose to supplement this by a grant of two and a half lakhs from their own funds, and it is appropriate, therefore, that Government should give further assistance for the same purpose."

Extract from letter No. 2151, dated Simla, the 18th September, 1912, from the Joint Secretary to the Government of India, to the Secretary to the Government of Bengal, General (Education) Department.

"I am directed to reply to your letter No. 1188 T. G., dated the 31st July, 1912, regarding the utilisation of the non-recurring grant of Rs. 4,00,000 and the recurring grant of Rs. 65,000 which has been allotted to the Calcutta University.

2. The proposals made by the University and concurred in by the Government of Bengal are as follows :—

Non-recurring

	Rs.
Examination Halls and Law Hostel	3,00,000
Books and furniture for University Library	1,00,000
	4,00,000

Recurring,

Professorship of Mental and Moral Science	12,000
Professorship of Higher Mathematics	12,000
Additional grant to University Law College	10,000
Two University Readers	4,000
University Lecturers	15,000
Maintenance of a laboratory in connexion with Mr. Palit's benefaction	12,000
Total ...	65,000

3. The Government of India approve the schemes subject to the following modifications :—

(i) The two Professorships, the pay of which will be met from the Imperial grant may be designated the "George the Fifth Professorship of Mental and Moral Science" and the "Hardinge Professorship of Higher Mathematics" subject to the approval in the case of the former Professorship of His Majesty the King Emperor. The Government of India do not think it suitable to name a Professorship after His Imperial Majesty when the endowment is not of a permanent character, as in the case of the Professorship of Indian History and Antiquities. The appointment of the Professors and likewise of the University Readers will be subject to the provisions contained in Chapter IX and X of the Regulations.

(ii) The arrangement for the entertainment at the cost of Rs. 15,000 per annum of University lecturers is to be regarded

as experimental and will, if necessary, be revised after a period of two years. The appointment of the incumbents will be subject to the provisions of Chapter XI of the Regulations.

4. The necessary arrangements will be made for the assignment of the grants referred to in this Department's letter No. 745, dated the 29th March, 1912, and the money will appear each year in the Local Government's Budget to be given out to the University with the approval of the Government of India for objects akin to those suggested in your letter under reply.

5. Finally, I am to say that the Government of India have heard with surprise that the University had already entered into a contract for the buildings required for examination halls and law hostels and that the work has already been begun. In the Government of India letter No. 745, dated the 29th March, 1912, proposals were invited and it was clearly indicated that they would be considered by the Government of India. The action of the University was accordingly irregular since the allotment of such grants to the University is always subject to the approval of the schemes by the Government of India."

8th October, 1912—Second Trust Deed executed by Mr. (afterwards Sir) Taraknath Palit. (Trust Deed printed in the University Calendar).

A letter from the Registrar, Calcutta University, to the Joint Secretary to Government of India, Education Department, through His Excellency the Rector No. 3624, dated the 30th December, 1912.

"I am directed by the Hon'ble the Vice-Chancellor and the Syndicate to address the Government of India upon the question of a special grant for higher teaching in the University of Calcutta. The Vice-Chancellor and the Syndicate are deeply grateful to the Government of India for the liberal financial assistance they have already rendered to the University, but they believe that the recent developments in University work not only justify, but make it incumbent upon, them to put forward a claim for a further substantial grant for the next financial year.

2. The Government of India are no doubt aware that in the course of the six months, Mr. T. Palit, Bar-at Law, has made to the University a princely gift of money and property of the aggregate value of nearly 15 lakhs of rupees for the purpose of founding a College of Science and for the general improvement of scientific and technical education. Under the terms of the deeds of gift, the University is bound to maintain

from the income of the endowment, a Chair of Physics and a Chair of Chemistry and to institute a scholarship to be awarded to a distinguished graduate for the study of Science in a foreign country; the University is also bound to establish a laboratory for advanced teaching and research and to contribute towards this object at least two and a half lakhs of rupees out of its own funds. But this sum is quite inadequate for the establishment of a laboratory of the kind contemplated. The Vice-Chancellor and the Syndicate are anxious that the fullest advantage should be taken of this unique opportunity to establish a Residential College of Science in Calcutta, and it appears to them that if the necessary funds are available, the object can be speedily accomplished without any difficulty. The properties vested in the University by Mr. Palit include, among others, two fine plots of land, one of 12 bighas and the other of 25 bighas in area. On the bigger plot there are two splendid three-storied houses, recently built, which are admirably suited to accommodate 210 students. If, therefore, adequate funds were forthcoming to erect and equip the requisite laboratories and Professors' quarters on this plot, a Residential College could be set up in working order in the course of a year. The estimated cost of the project amounts to 15 lakhs of Rupees, and the Vice-Chancellor and the Syndicate do not hesitate to ask the Government of India for a grant to the University of this sum. The gift of Mr. Palit is absolutely unique in the history of University education in this country, and they feel sure that the Government of India will be glad to supplement it by an at least equal amount to enable the University to carry out the scheme in its entirety, especially, in view of the fact that the University has already agreed to contribute 2½ lakhs out of its own very limited savings. I am desired to add that a sympathetic and generous attitude on the part of the Government of India towards the object which Mr. Palit had at heart, cannot fail greatly to influence public sentiment and may not improbably induce other wealthy gentlemen to found similar endowments for the encouragement of higher teaching.

3. The second subject to which the Vice-Chancellor and the Syndicate desire me to draw the attention of the Government of India is the acquisition of the Fish Market situated to the south of the Senate House and east of the new University buildings. This site is urgently needed for further extension of University buildings. There can also be no doubt that from a sanitary point of view the market ought not to be tolerated in its present place immediately to the north of the Medical College Hospital and to the east of the hostels for medical students and University Law students. The purpose for which the property is required by the University may be briefly indicated. The

University has now definitely undertaken post-graduate teaching, and there can be little doubt that advanced teaching for M.A., M.Sc., Ph.D. and D.Sc. degrees—for which the time is fully ripe—must be concentrated in Calcutta, so far, at any rate, as Western Bengal is concerned. The standard prescribed by the Regulations for the degrees of Master and Doctor is so high that adequate instruction in this respect cannot be expected to be imparted by private Colleges, possibly not even by isolated Government Colleges, which have to bear the burden of undergraduate teaching. Besides, the difficulty of securing the services of competent teachers for advanced instruction has been found to be so great that M.A. and M.Sc. instruction in several centres is beyond the range of practical politics. Even in Calcutta, the Presidency College with an exceptionally strong teaching staff and up-to-date equipments, is able to provide for the post-graduate teaching of no more than a very limited number of students in selected groups out of six subjects for the M.A. and M.Sc. Examinations. Under these circumstances, it is not surprising that the arrangements made by the University for post-graduate study have met with striking success. At the present moment, there are over 500 students attending systematic courses of lectures on various M.A. subjects under University Lecturers appointed and paid by the University; and there is reason to believe that their number will substantially increase next session. If this large body of post-graduate students is to be properly educated and kept under discipline, the question of lecture rooms, seminars and hostel accommodation at once urges itself upon our attention. If the site now occupied by the market were acquired for the University and a substantial grant made for the further extension of the University buildings, the need for which is already keenly felt, the question of teaching and residence of post-graduate students would in a great measure be solved. It has been estimated that the acquisition of the market would cost 8 lakhs of rupees and another 7 lakhs would be required for the proposed buildings. I am directed to point out that proposals for the acquisition of the market have from time to time been discussed for several years past; meanwhile the value of the property has rapidly increased, and further delay would mean further rise in value and payment of a heavier sum as compensation to the owner. Immediate acquisition would, therefore, prove to be ultimately economical, since the fish market must be acquired sooner or later for educational purposes, situated as it is in the heart of a locality studded on all sides with handsome educational buildings.

4. The third point to which I am directed to invite your attention, is the completion of the University Law College Hostel

buildings towards the erection of which the Government of India have generously made a grant of 3 lakhs of rupees (the land having been acquired by the University for a lakh and a half out of its own funds). The Vice-Chancellor and the Syndicate would ask for a grant of one lakh for furniture, fittings and appliances for the 175 students who will be in residence from June next, as well as for the extra cost of construction of the building. The actual cost of the building has exceeded the estimate, as the apparently solid ground turned out to be in part a filled up tank, and the foundations had to be laid very much deeper and wider than the Engineers and the Government Architect had anticipated.

5. The fourth point to which the Vice-Chancellor and the Syndicate desire me to draw the attention of the Government is the University Library. The one lakh contributed by the Government of India for the current year has been of great assistance to the University; but at least another lakh would be needed to bring the Library up to the requirements of Post-Graduate students and University Professors and Lecturers. The libraries in Calcutta are singularly lacking in modern books, periodicals and transactions of learned societies absolutely essential for advanced study and research work. The want in this respect could be met to a considerable extent if another lakh was granted next financial year.

6. The last subject to which the Vice-Chancellor and the Syndicate desire me to draw your attention is the foundation of at least three more Professorships. Provision has either been made or is about to be made for seven Chairs in the University as follows:

(1) Professorship of Law founded by Prasannakumar Tagore.
(2) Professorship of Economics founded by the Government of India at the time of the Jubilee celebrations.
(3) and (4) Professorships of Higher Mathematics and of Mental and Moral Philosophy founded by the Government of India on the occasion of the Imperial visit.
(5) Professorship of Ancient Indian History and Civilisation founded by the University on the occasion of the Imperial visit.
(6) and (7) Professorships of Chemistry and Physics founded by Mr. Palit.

The three Chairs for which the Vice-Chancellor and the Syndicate now apply, should in their opinion, be devoted to Applied Mathematics, Modern History and Comparative Philology. The Vice-Chancellor and the Syndicate feel that there is pressing need for higher teaching in these branches of knowledge

The University of Calcutta & Acharya P.C.Ray 1906-1944

and that if adequate provision is made, there will be no lack of students to avail themselves of the benefits of such teaching. Each of the Chairs would require a recurring grant of Rs. 12,000 to Rs. 15,000 a year.

To summarise: The Vice-Chancellor and the Syndicate apply for financial aid to the following extent:—

Non-recurring Grant.

	Rs.
(1) For the Residential College of Science supplementing the gift of Mr. Palit ...	15 lakhs.
(2) (a) For the acquisition of the Fish Market	8 „
(b) For the erection of a hostel for Post-Graduate Students and for additional lecture rooms and seminars for advanced work and research ...	7 „
(3) For the completion and equipment of the University Law College Hostel Building	1 lakh.
(4) For the University Library... ...	1 „
TOTAL ...	32 lakhs.

Recurring Grant.

	Rs.
(1) Professorship of Applied Mathematics ...	15,000
(2) Professorship of Modern History ...	15,000
(3) Professorship of Comparative Philology...	15,000
TOTAL ...	45,000

In conclusion, the Vice-Chancellor and the Syndicate desire me to urge that this University is entitled to special consideration by reason of the determined and sustained effort it has hitherto successfully made to carry out loyally the reforms contemplated by the Indian Universities Act of 1904. Comparisons are obviously undesirable; but it cannot be disputed that this University has achieved a high measure of success in its endeavour to undertake and promote higher teaching, and the Vice-Chancellor and the Syndicate venture to express the hope that the Government of India will not be reluctant to place adequate funds at their disposal to continue and put on a wide and sound basis the work already begun. The Vice-Chancellor and the Syndicate finally desire me to assure the Government of India that should the funds be available, they would be able to bring

the scheme into full realisation in less than two years. Should the whole of the non-recurring grant of 32 lakhs for which application is now made not be available during the next financial year, the Vice-Chancellor and the Syndicate will be ready to initiate the scheme if one-half is granted during the year 1913-14 and the other half during the year 1914-15."

Reply from Mr. Sharp, letter No. 75 C.D., dated 14th January, 1913.

No. 75 C. D.

GOVERNMENT OF INDIA.
DEPARTMENT OF EDUCATION.
(Education).

Delhi, the 14th January, 1913.

FROM

THE HON'BLE MR. H. SHARP, C.I.E.,

Joint Secretary to the Government of India,

To

THE REGISTRAR, CALCUTTA UNIVERSITY.

(*Through His Excellency the Rector*).

SIR,

I am directed to acknowledge the receipt of your letter No. 3624, dated the 30th December, 1912, regarding proposals for a non-recurring grant of Rupees 32 lakhs and a recurring grant of Rs. 45,000 for the Calcutta University. The Government of India are not yet aware what grants, if any, they will be able to assign for education during the ensuing financial year. But I am to say that the requests of the Calcutta University will receive consideration in conjunction with the claims of other Universities and of other branches of education.

I have, etc., etc.,
(Sd.) H. SHARP,
Joint Secretary to the Government of India.

8th August, 1913.—Dr. (afterwards Sir) Rashbehary Ghosh offers ten lakhs of rupees in furtherance of the University College of Science and for the promotion of Scientific and Technical Education by the establishment of four Professorships of Applied Mathematics, Physics, Chemistry and Botany with special reference to Agriculture (letter printed in the University Calendar).

A letter from the Registrar, Calcutta University, No. 1 G.I., dated the 4th October, 1913, to the Joint Secretary to the Government of India, Department of Education.

No. 1 G.I.

From

P. BRÜHL, Esq., D.Sc., F.C.S., F.G.S.,
Offg. Registrar, Calcutta University,

To

THE JOINT-SECRETARY TO THE
GOVERNMENT OF INDIA,
DEPARTMENT OF EDUCATION.
(*Through His Excellency the Rector*).

SENATE HOUSE,
CALCUTTA:
The 4th October, 1913.

SIR,

I am directed by the Syndicate to refer to correspondence resting with your letter No. 75 C.D., dated the 14th January, 1913, in reply to our letter No. 3624, dated the 30th December, 1912, and to address the Government of India upon the question of a further grant for higher teaching in this University. The Syndicate have been informed that during the current year the Government of India have been pleased to make a grant of 8 lakhs of rupees for the acquisition of what is known as the Fish Market Site. The Syndicate are deeply grateful to the Government of India for liberal financial assistance they have hitherto rendered to the University and are encouraged thereby to apply for a further substantial grant to enable them to carry out fully the recent development in University work.

In our letter, dated the 30th December, 1912, the first place was assigned to the scheme for the establishment of a University College of Science for the promotion of higher teaching in different branches of Physical and Natural Science. The Syndicate pointed out that in furtherance of this object Sir Taraknath Palit had made a gift of money and land to the extent of 15 lakhs of rupees and that the University had undertaken to supplement this unique gift by a contribution of two and a half lakhs from its limited Reserve Fund. The Syndicate

The University of Calcutta & Acharya P.C.Ray 1906-1944

entertained the hope that under these circumstances the Government of India might suitably supplement and thereby accord recognition to this princely gift, but they were disappointed to find that money was not available for this purpose. Since then Dr. Rashbehary Ghosh has made a gift of 10 lakhs of rupees for the foundation of Professorships and Studentships in connection with the proposed University College of Science. The Syndicate venture to urge upon the Government of India that a claim has now been fully established for a generous contribution from the State in furtherance of the University College of Science. They further desire me to point out that the foundation of a University College of Science for Post-Graduate Studies and Research is one of the foremost needs of the University. There is only one College, namely, the Presidency College, which is affiliated in Physics and Chemistry up to the Standard of the M.A. and M.Sc. Examinations, but it must be noted that the Presidency College, inspite of its new Laboratories, has very limited accommodation for Post-Graduate students and is not able to take in more than 10 students in Chemistry and 18 students in Physics every year. Apart, therefore, from the obvious importance of increased facilities for the scientific training of qualified students in this country, it is plain that there does not exist in this University adequate provision for the training of the numerous lecturers and demonstrators required for the efficient management of the Colleges affiliated in scientific subjects. In our letter of the 30th December, 1913, it was stated that the estimated cost of the project for the establishment of a University College of Science was 15 lakhs of rupees; the Syndicate have carefully reconsidered the matter and have come to the conclusion that a smaller sum would not be sufficient to secure that efficiency for the institution, which must, for obvious reasons be its principal characteristic. The laboratory building of which the plans are ready, will cost at least 5 lakhs of rupees: the Hostel which is proposed to be attached to it, will cost not less than 2 lakhs of rupees; the equipment will, on the most moderate estimate, cost 5 lakhs of rupees; a suitable scientific library cannot be created for less than 2 lakhs of rupees, if complete sets of important periodicals and publications of learned societies have to be brought together, while at least 1 lakh will be required for additional land. It is not suggested that the whole of this money, if available, may be utilised in the course of twelve months, but it is eminently desirable that an idea should be formed of the minimum requirements of the entire scheme which it may take two or possibly three years to complete.

The University of Calcutta & Acharya P C.Ray 1906-1944

The second point to which I am directed to invite the attention of the Government of India is the development of Post-Graduate teaching apart from Science, in this University. A statement on this subject was made before the Senate by the Hon'ble the Vice-Chancellor on the 27th September last and a copy thereof is annexed to this letter. The most urgent need of the University in this respect is the further extension of the University Buildings. For this purpose, the Fish Market Site may be suitably utilised. The Syndicate have taken up the matter in earnest and plans have already been prepared for extension of the University Buildings which, when completed, will give ample accommodation for the classes held by the University Professors and Lecturers and will enable the University to assign to individual Professors, rooms suitably fitted up for study and research. There will also be space for further and much needed extension of the University Library and finally, arrangements will be made for the residence of 200 Post-Graduate students on the premises. The cost of the building is estimated at 10 lakhs of rupees. The Syndicate would further suggest that land should be acquired in the neighbourhood of the Senate House for play-ground for University Students as well as the Students of the University Law College specially those resident in the Hardinge Hostel; and there is no reason why such play-ground should not also be used by the members of the Calcutta University Institute. For this purpose a sum of 4 lakhs may be required, and it may be mentioned that suitable land may, without difficulty, be acquired towards the East of the College Square. The Syndicate would also ask that a sum of 2 lakhs may be granted for further additions to the University Library, to which access is now sought by a large number of Post-Graduate students.

The last point to which I am directed to invite the attention of the Government of India is the question of a substantial increase of the recurring grant to the University; the Syndicate gratefully acknowledge, that the present grant is handsome, but they desire me to represent that it has proved inadequate for the rapidly growing needs of higher teaching and research in the University. The annual recurring grant at present stands as follows :—

	Rs.
Inspection of Colleges	25,000
Travelling Expenses of Fellows ...	5,000
University Law College	20,000
	10,000
Hardinge Professor of Mathematics ...	12,000

	Rs.
King George V Professor of Philosophy ...	12,000
Sir Taraknath Palit Laboratory ...	12,000
University Readers	4,000
Post-Graduate Teaching	15,000

The *additional* annual grant which the Syndicate consider essential, is as follows :—

	Rs.
Post-Graduate Teaching	50,000
Sir Taraknath Palit Laboratory ...	36,000
University Readers	20,000
University Librarian	6,000
Secretary to the Governing Body for Post-Graduate Teaching.	6,000
Professor of Modern History ...	12,000
Professor of Mahomedan (Mediæval) Indian History.	12,000
Professor of Astronomy	12,000
Professor of Botany	12,000
Professor of Zoology	12,000
Professor of Jurisprudence	12,000

With regard to each of these claims, brief explanations may be submitted. The number of Post-Graduate students has increased to such an extent that our Lecturer must be increased in number, and if their services are to be continuously retained, (which indeed is a condition absolutely essential for the successful working of our scheme of higher teaching), they must be better paid and better prospects should be held out to them. It is obvious that the recurring expenditure for the Laboratory in connection with the University College of Science which will be used exclusively for Post-Graduate studies and research, will, even at the most moderate estimate, considerably exceed Rs. 1,000 a month (the amount of the present grant) and an additional sum of Rs. 3,000 a month, cannot be deemed by any means too liberal, when it is remembered that there will be at least six University Professors at work with research students under them. For University Readers, the University requires considerably more than the sum at present allotted (Rs. 4,000 a year). Experience has shown that scholars and investigators of the first rank cannot be induced to come out and stay for even a limited period to deliver a special course of lectures, for any sum less than £300 to £400, and, in our case, the University had to pay as much as £600 besides travelling expenses. The additional sum of Rs. 20,000 now asked for will enable the University to secure the services of 3 or 4 distinguished Readers

The University of Calcutta & Acharya P.C.Ray 1906-1944

every year as also to arrange for the publication of their lectures. The University also requires the services of a competent whole-time Librarian to look after and catalogue our increasing collection of books. We also require the services of a competent Professor to look after the arrangements for the Post-Graduate Teaching of more than a thousand students. Finally, the University requires 6 additional Chairs, one for each of the following subjects in which there is considerable demand for higher teaching: Modern History, Indian History (Mahomedan Period), Jurisprudence, Astronomy, Botany and Zoology. The Syndicate ask me to submit that this portion of their proposals has strong claims to sympathetic consideration by the Government of India. They desire me to point out that of the 14 Chairs in the University, 3 have been founded by the Government of India, 4 are maintained by the University, while 7 have been established by private munificence, as will appear from the following list:—

GOVERNMENT OF INDIA.

1. Minto Professor of Economics.
2. Hardinge Professor of Mathematics.
3. King George V Professor of Philosophy.

UNIVERSITY FUNDS.

1. Carmichael Professor of Ancient Indian History and Culture.
2. Professor of Comparative Philology.
3. Professor of English.
4. A Second Professor of English.

PRASANNAKUMAR TAGORE.

1. Professor of Law.

SIR TARAKNATH PALIT.

1. Professor of Physics.
2. Professor of Chemistry.

Dr. RASHBEHARY GHOSH.

1. Professor of Applied Mathematics.
2. Professor of Physics.
3. Professor of Chemistry.
4. Professor of Botany.

In conclusion, the Syndicate desire me to emphasise what was stated in the concluding paragraph of our letter, dated the 30th December, 1912, namely, that this University is entitled to special consideration by reason of the determined and sustained efforts successfully made to carry out loyally the reforms contemplated by the Indian Universities Act of 1904 and they

venture to repeat the hope previously expressed that the Government of India will not be reluctant to place adequate funds at their disposal to enable them to develop the important work already begun and to place it on a permanent basis.

I have the honour to be,
SIR,
Your most obedient servant,
(Sd.) P. BRÜHL,
Offg. Registrar.

The above is an extract from the Minutes of the Syndicate, dated the 4th October, 1913 and is circulated to the Members of the Senate for information.

SENATE HOUSE,
The 21st January, 1914.

(Sd.) P. BRÜHL.
Offg. Registrar.

Reply of MR. SHARP, dated the 27th November, 1913.

DEPARTMENT OF EDUCATION,
Delhi, the 27th November, 1913.

DEAR MR. BRÜHL,

I am desired to acknowledge the receipt of your demi-official letter, dated the 16th October, 1913, forwarding a copy of a letter from the Calcutta University regarding the question of a further grant for higher teaching, and to say that the Imperial Funds available for education this year have already been allotted.

Yours sincerely,
(Sd.) H. SHARP.

DR. P. BRÜHL, D.Sc., F.C.S., F.G.S.,
Registrar, Calcutta University,
Senate House, Calcutta

Reply of DR. BRÜHL, Registrar, dated the 4th December, 1913.

SENATE HOUSE,
Calcutta,
The 4th December, 1913.

DEAR MR. SHARP,

In acknowledging your D. O. letter, dated the 27th November, 1913, stating that the Imperial Funds available for education this year have already been allotted, I desire to say

that the Syndicate had no intention to ask for a grant to be given to the Calcutta University out of the funds available during the present financial year. My letter, No. 1 G.I., dated the 4th October, 1913, was written to indicate to the Government of India the wants and aspirations of the Calcutta University and to approach the Government of India with the request to aid the Calcutta University by placing adequate funds at its disposal to enable it to develop its educational work and place it on a permanent basis. This request was forwarded at the commencement of October so as to enable the Government of India to take it into consideration when framing its budget estimates for the year 1914 to 1915. It may, of course, not be possible to grant the whole amount all in one year; what the University asks is that the Government of India may be good enough to take the case into favourable consideration and to assist the University in attaining the high aims which it has placed before itself within a reasonable period of time.

Yours sincerely,
(Sd.) P. BRUHL.

Reply of Mr. Sharp, No. 673 Edn. dated the 23rd December, 1913.

D. O. No. 673, Edn.
Department of Education,
Delhi, the 23rd December, 1913.

DEAR DR. BRUHL,

In reply to your demi-official letter, dated the 4th December, 1913, I am desired to say that my demi-official letter No. 636, dated the 27th November, 1913, was merely intended to make clear to the University that no immediate allocation of funds was to be expected.

2. When funds are available, the request of the University for further grants for higher teaching will be considered in conjunction with other demands.

Yours truly,
(Sd.) H. SHARP.

DR. BRUHL, D.Sc., F.C.S., F.G.S., I.S.O.,
Registrar, Calcutta University.
SENATE HOUSE, CALCUTTA.

Letter No 5451, dated the 18th March, 1915, from the Registrar to the Joint Secretary to the Government of India.

The University of Calcutta & Acharya P.C.Ray 1906-1944

No. 8457.

From

P. BRUHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,

Registrar, Calcutta University,

To

The Joint-Secretary to the Government of India,

Department of Education.

(Through His Excellency the Rector.)

Senate House, the 13th March, 1915.

SIR,

In my letter, 1 G. I., dated the 4th October, 1913, the Government of India was asked for substantial aid for the purposes of the University College of Science. The Hon'ble the Vice-Chancellor and the Syndicate are glad that, during his short stay at Calcutta, the Hon'ble Sir Harcourt Butler was able to visit the site of the new Science College and to note the progress of the building work. The Syndicate, after having set apart three Lakhs of Rupees for building purposes in fulfilment of the terms of Sir Taraknath Palit's Trust Deed out of the reserve fund accumulated in the course of a number of years, find themselves in the difficult position of having no funds at their disposal for the furniture and the fittings of the new laboratories nor for the provision of the necessary apparatus and a scientific library sufficiently well stocked with books and periodicals for effectively carrying on research work in Chemistry, Physics, Botany, and Applied Mathematics.

From the very inception of the Science College Scheme the provision of a Hostel for the students of the Science College and of Residential Quarters of the Professors has formed an essential part of the Scheme. Research work on scientific subjects cannot be tied down to fixed hours; for it is often impossible to interrupt experiments or observations at times fixed in advance by a rigid routine, and it is often found necessary to continue experiments till late in the evening. The work can therefore be carried on efficiently only if the Residential quarters of Professors and students are in close vicinity of Laboratories and Libraries.

As the number of students working in the University College of Science will be limited, it becomes possible to create a residential College complete in itself and to demonstrate to its fullest extent the wholesome influence exerted on the life and work of advanced students by intimate association with their Professors. This scheme is all the more easy of execution as besides some land available for building purposes

to the west of the laboratory building, there is a plot of vacant land to the south-west of the premises, pointed out by the Hon'ble the Vice-Chancellor to Sir Harcourt Butler, which may still be acquired at a comparatively low cost, if required at an early date. Considering the great interest which His Excellency the Chancellor and His Excellency the Rector take in the development of true University life, the Hon'ble the Vice-Chancellor and the Syndicate earnestly trust that your Government will kindly assist the University with a grant sufficient to make the College of Science a success in every respect. If in view of the present financial difficulties the whole of the grant of twelve lakhs of rupees be not available, a substantial grant will relieve the present situation and will make further progress of the work possible. The buildings are sufficiently advanced to allow admission of students from the beginning of the next session provided the fittings are taken in hand immediately. And if a portion of the Hostel grants be made over to the College, acquisition of the land to the south-west may be possible at a comparatively low rate, whilst a delay in the acquisition of the land is sure to induce higher rates to be demanded in the near future.

The Syndicate must leave the present extent of the grant to the Government, but the Syndicate hope that a favourable decision will be communicated to them at an early date, so that the question of fittings and furniture may be taken up without delay.

I have the honour to be,

SIR,

Your most obedient servant,

(Sd.) P. BRÜHL,

Registrar.

Reply to the Registrar, by the Secretary to the Government of India, letter No. 1093, dated the 19th June, 1915.

From the Hon'ble Mr. H. Sharp, C.I.E., Secretary to the Government of India, Department of Education, to the Registrar, Calcutta University, No. 1093, *dated the* 19th *June*, 1915.

"I am directed to reply to your letter No. 6457, dated the 13th March, 1915, in which it is asked that a grant of 12 lakhs or less be made to the University in aid of the College of Science, and that a portion of the recent Hostel grant of 10 lakhs be utilised for acquisition of a site to the south-west of it.

2. The Government of India have now received the views of His Excellency the Rector regarding this proposal. I am to invite attention to paragraph 2 this Department letter No. 556,

dated the 16th March, 1915. The Government of India lay particular stress upon the necessity of receiving a clear statement of the general policy of the University in respect of M.A. and M.Sc. teaching, the more so as that policy (so far as the Government of India have been able to understand it) appears to have been developed without due co-operation with affiliated colleges, in a manner not entirely contemplated by the University regulations and in disagreement with the most recent opinions of high authorities on University teaching.

3. As regards the College of Science, the information before the Government of India is particularly meagre. They were not consulted before the terms of the bequests were settled or again before the building was commenced. It would be unusual for Government to allot money for a particular scheme regarding the details and even the general intention of which they are ignorant. Before the present request can even be considered, the Government of India would require a full exposition of the scheme in general, of the nature and scope of the teaching to be provided, the staff and establishment to be appointed, the accommodation required for students and professors and other similar details; a statement of the steps already taken towards the establishment of the College and the cost of such steps; and finally a full financial statement showing in detail the cost, capital and recurring, which the establishment of the College is estimated to involve and the assets available, whether in the shape of endowments, existing grants from Government, or the resources of the University.

4. The Government of India are unable to take into consideration the present request for a grant unless they are provided with information on the lines indicated in the preceding paragraph. But in order that any misunderstanding regarding this point may be avoided I am to say at once that quite apart from the existing difficulties of the financial position the attitude of the Government of India towards the scheme of the University College of Science will necessarily be based upon the conclusions arrived at in other and wider matters than the nature of the scheme immediately under consideration. Among these matters may be mentioned the following:—

(*i*) As has already been pointed out on various occasions, the Government of India await the report of the Sub-Committee which it is understood is at present investigating the finances of the University.

(*ii*) The proposed College of Science will apparently form a portion of the general scheme of M.A. and M.Sc. teaching referred to in paragraph 2 above and will also undertake research work. As there stated, the Government of India before proceeding further desire a clear statement of policy and will have to

take that policy into very careful consideration. The desirability of centralising instruction of this type, the methods of imparting it, the participation of the larger colleges in higher work and the conditions under which the proposed College of Science and other University classes should receive affiliation are among the matters which will have to be decided under this head.

(*iii*) Finally should the scheme be found acceptable and should the matters treated of in this paragraph be satisfactorily elucidated the Government of India nevertheless feel it incumbent upon them to remind the Hon'ble the Vice-Chancellor and the Syndicate that their treatment of the Calcutta University since the passing of the Universities Act of 1904 has been particularly generous, that the grants allotted to it have been considerably in excess of those allotted to other Universities and that in view of other and urgent claims the Government of India feel it incumbent upon them not merely to examine with particular care the merits of any new proposal but also to consider any scheme however deserving along with other schemes which are supported from other quarters.

5. It is hoped that the Hon'ble the Vice-Chancellor and the Syndicate will fully realise the position of responsibility in which the Government of India feel themselves to stand both in respect of the examination of schemes for the instruction of students reading the courses of the Calcutta University, regarding which special duties are laid upon the Government of India by the Universities Act of 1904, as also in respect of the exercise of due economy in the allotment of public money when so many urgent claims have to be satisfied.

6. With reference to the concluding portion of the penultimate paragraph of your letter, I am to say that the grant of 10 lakhs recently announced for undergraduate students of affiliated colleges in Calcutta was made for a special purpose and the Government of India are not prepared to see any portion of it diverted to other purposes."

Letter from the Hon'ble Mr. H. Sharp, C.I.E., Joint Secretary to the Government of India, No. 556, dated the 16th March, 1915 to the Registrar of the Calcutta University (Through His Excellency the Rector).

"I am directed to refer to your letter No. 4892, dated the 1st December, 1914, in which it is represented that the University of Calcutta set aside the sum of three lakhs of rupees in Government securities for the purpose of the building of the University College of Science, that one lakh of rupees was sold out before the commencement of the war and that the sale at present prices of the remaining two lakhs would entail upon the University a loss of Rs. 16,000; and it is requested that the

Government of India will lend the University a sum equivalent to the value which the securities had before the outbreak of the war or some other sum either without interest or at a rate of interest lower than the ordinary and receive in exchange the securities.

2. I am to say that the Government of India would prefer to defer their reply pending the receipt of the report of the Sub-Committee mentioned in the last paragraph of your letter No. 1364, dated the 11th November, 1914, regarding the financial position of the University. Further, the Government of India have received no definite proposals regarding this College of Science, which, they understand, is a portion of the scheme of the University for the development of M.A., M.Sc., and Post-Graduate instruction. They feel themselves unable to consider this or any other request regarding these matters unless they receive a clear statement of the general policy of the University in this respect and of the proposed College of Science in particular. The Government of India hope the University will be able to report on the whole subject at an early date."

Letter No. 12116 *dated* 26*th June*, 1915, *from the Registrar, Calcutta University to the Secretary to the Government of India, Department of Education.*

No. 12116.

FROM

P. BRÜHL, Esq., D.Sc., I.S.O., F.C.S., F.G.S.,

Registrar, University of Calcutta,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
DEPARTMENT OF EDUCATION.
(*Through His Excellency the Rector*).

Senate-House, the 26*th June*, 1915.

SIR,

With reference to your letter No. 550, dated the 16th March, 1915, I have the honour, by direction of the Hon'ble the Vice-Chancellor and the Syndicate, to address you regarding the general policy of the University in respect of the University College of Science.

The scope of the University College of Science will be—

(1) to provide facilities for research work in Applied Mathematics, Physics, Inorganic, Organic and Physical Chemistry—Pure as well as Applied—, Botany, and as soon as ways and

means can be found, in Zoology and other branches of Natura Science;

(2) to prepare a limited number of students for the M.A. and M.Sc. Examinations in the branches of Science enumerated above.

As regards research, the University College of Science will provide facilities not only to Professors and regular students, but also to persons not directly connected with the College who desire to carry on research work after or before the ordinary day's work or during vacations, privilege or study leave; and the duty of the Professors will be not only to engage in research work on their own account, but to guide and supervise the work of students who are preparing theses on scientific subjects for the M.A. and M.Sc. Examinations, the Doctorate or various studentships.

It may not be superfluous to point out in this connection that there are numerous scientific problems outstanding, especially problems connected with conditions obtaining in tropical and sub-tropical countries, some of them of great practical importance and which may well engage the attention of workers in the college.

As regards Botany especially, many of the ecological, mutational, and plant-physiological problems can be most advantageously worked out in the Tropics, as is shown by the results of the highly useful and successful work done in these directions in the Botanical Gardens of Peradeniya and Buitenzorg, and it is a cause for regret that comparatively little of this class of work has been done in India in general and in Bengal in particular. Although a large amount of work of a very high order of excellence has been done in Bengal and other parts of India in connection with the systematic Botany of the Phanerogams and the Higher Cryptogams and valuable additions have been made to our knowledge of members of the class of fungi, especially of such as are noxious to crops, an immense field of work lies yet open to botanists who are ready to devote themselves to a systematic study of the Lower Indigenous Cryptogams. It is hoped that effective steps will be taken in this direction after the return from Europe of Mr. Agharkar, the Rashbehary Ghose Professor of Botany; for one of his tasks will be to found an indigenous school of cryptogamic botanists, who will not only devote themselves to filling out the gaps existing at present in Indian systematic botany, but whose work will also be of great practical value, considering the important bearing which a study of the lower cryptogams has on agricultural and industrial problems.

With regard to Chemistry, the school of young and enthusiastic chemists founded by the efforts and example of Dr. P. C. Ray will find an extended field of work in the University College of Science; for not only is the number of problems of purely theoretical interest increasing with every advance of this branch of science, but a large field for important and practically useful work lies open to workers in the provinces of specifically Indian mineral, agricultural, and biological chemistry; in the latter case, a large number of highly important problems are presented by the chemistry of proteids, and Indian alkaloids and glucosides.

The Professors appointed to the Chairs of Physics and of Applied Mathematics have done and are continuing to do valuable research work and the latter has already gathered round him a small group of young enthusiastic workers.

At some future date provision will have to be made in the University College of Science for research in a branch of natural science which up to the present has not been taken up in the Science Colleges of Bengal, except the Medical College,—namely, Zoology. A large amount of zoological research work has been done by the scientists of the Indian Museum and by others not directly connected with education; but numerous gaps remain to be filled up in Indian systematic zoology, more especially as concerns certain classes of Invertebrates. Moreover, a large number of problems—ecological, anatomical, and mutational—many of them specifically Indian, are waiting for workers and suitably furnished laboratories.

As regards M.A. and M.Sc. teaching, it may be pointed out that the existing colleges which are affiliated up to those standards in Chemistry and Physics, have either not been able to provide accommodation for all the students seeking admission or have been unable to supply sufficient means for Post-Graduate teachingin these subjects. The Presidency College (which has only B.Sc. affiliation in Botany and not I.Sc.) has not yet sought affiliation to the M.Sc. standard in Botany, and even if it does so and obtains affiliation in the subject, it is not likely to obtain sanction to employ a staff numerous enough to teach all the branches of a large and growing science equally effectively. It is here where collaboration with the University College of Science will be most fruitful of results. Arrangements can easily be made for students to work for part of their course in the Presidency College and for the remaining part in the College of Science, thus rendering it possible for the professors in both the institutions to specialise in certain branches of their subject, a condition which, however desirable would be impossible to obtain, if each institution had to depend

entirely on its own teaching resources. The present arrangements for teaching of Botany and Geology through University Lecturers is admittedly defective, and it is a matter of constant complaint that students get inadequate assistance for the M.A. and M.Sc. courses, a complaint reflected in the results of the corresponding Examinations.

Even in regard to the college that has affiliation in science subjects up to the M.A. or M.Sc. standard, the accommodation is, on the whole, inadequate. The Presidency College, in spite of its recent additions, has room only for a total of 31 students in Chemistry and 36 students in Physics, the number of admissions to the 5th-year classes being restricted to 13 and 18 respectively. This is inadequate to meet the growing demand for higher teaching in science. An incident at the beginning of the current academical session may be mentioned in illustration. Several graduates of the Scottish Churches College, who had taken high honours at the B.Sc. Examination, could not get admission into the Presidency College, where preference had to be given to men who had taken either pass or low honours from that college. Great disappointment was felt and expressed, and the Syndicate was powerless in the matter. Moreover, the Presidency College makes provision for comparatively small sections of the courses prescribed. There are important alternative groups for which no provision has been or can be made.

A short history of what has been done up to the present time in connection with the University College of Science will be of interest. Sir Taraknath Palit founded two Professorships, one of Chemistry and the other of Physics, and stipulated that, if the income of the endowed properties should exceed the amount required for the maintenance and up-keep of the two professorships, the surplus income may be applied to the payment of Scholarships or stipends to such advanced students for the Degrees of Master of Science or Doctor of Science as may receive training or carry out research under the Professors.

The Trust Deed also stipulates that the sum of one lakh of rupees be set apart when realised out of the Trust Estate and that the net income be applied in maintaining scholarships for advanced students in Science to carry on research outside India.

On the 8th August, 1913, Sir Rashbehary Ghose placed at the disposal of the University a sum of 10 lakhs of rupees for the purpose of founding four Professorships one each for the following subjects :—

Applied Mathematics, Physics, Chemistry, and Botany with special reference to Agriculture, the duties of the Professors to

be (*a*) to carry on original research in his special subject, and (*b*) to guide and stimulate research by advanced students. The donor also directed that eight studentships be founded to be awarded annually to distinguished graduates who have taken the Degree of Master in the Faculty of Arts or Science, the students to carry on investigations under the guidance of their respective professors and to assist them in the work of original research, with the additional condition that they may not, as long as they hold the studentship, engage in the study of any branch of professional knowledge.

The donor further directed that any balance, which may remain after the payment of salaries and studentships, may be applied to the equipment and maintenance of the Laboratories and Museums.

The details of the terms of Sir Taraknath Palit Trust are set out in his two Trust Deeds, a printed copy of which is herewith enclosed. The terms of Sir Rashbehary Ghose's Trust will appear from his letter, dated the 5th August, 1913, a copy of which is herewith enclosed. The Senate accepted Sir Taraknath Palit's Trust at its meetings on the 22nd June, 1912 and the 30th November, 1912, and Sir Rashbehary Ghose's Trust at its meeting dated the 16th August, 1913. The terms of such acceptance will appear from the Minutes of the Senate of those dates, copies of which are herewith enclosed for easy reference.

In pursuance of one of the Trusts of Sir Taraknath Palit, contained in Deed, dated 17th June, 1912, Clause (c) the Senate at its meeting on the 22nd June, 1912, set apart G. P. Notes of the nominal value of three lacs for giving effect to such Trust. The building is being erected out of the sale-proceeds of these Government securities. On account of increase in price of building materials as also necessary changes in the plans, it is apprehended that another lac of rupees will be required for completing the buildings. A copy of the Minutes of the Senate, dated the 22nd June, 1912, is herewith enclosed for ready reference.

The following appointments to the Palit Professorships were made at a meeting of the Senate on the 30th January, 1914, (a copy of the Minutes of which meeting is enclosed):—

Dr. Prafhullachandra Ray, C.I.E., Ph.D., D.Sc., F.C.S.
Mr. C. V. Raman, M.A.

The following duties have been assigned to each of the Professors:—

(1) To devote himself to original research, in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(2) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post Graduate study and research.

(3) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

The conditions on which the Professors have been appointed are as follows :—

(1) (*a*) The salary of the Sir Taraknath Palit Professor of Chemistry be Rs. 800 a month rising to Rs 1,000 a month by annual increment of Rs. 50.

(*b*) The salary of the Sir Taraknath Palit Professor of Physics be Rs. 800 a month rising to Rs. 1,000 a month by annual increment of Rs. 50.

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Governing Body and of the Senate previously obtained, hold any other office to which any salary, emolument or honorarium is attached.

(3) The appointment of each Professor shall be permanent, and no Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos :—

(*a*) A Professor shall vacate his office upon completion of sixtieth year of his age, unless, upon the recommendation of the Governing Body, the Senate is satisfied that his service should, in the interests of research, be still retained by the University, and, in such event, the Senate may, on the recommendation of the Governing Body, sanction his retention for such period as may be determined.

(*b*) A Professor may voluntarily resign his appointment at any time, upon not less than six months' notice given by him in writing to the Governing Body.

(*c*) A Professor, on retirement on the ground of either attainment of age or of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(*d*) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by the Governing Body after a full enquiry into specific charges brought against him,

provided that at such enquiry the Professor concerned shall be allowed adequate opportunity to defend himself.

(*e*) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Governing Body, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

At the same meeting of the Senate the following Professors were appointed to the Rashbehary Ghosh Professorships :—

Dr. Ganes Prasad, M.A., D.Sc.
Dr. Praphullachandra, Mitra, M.A., B.Sc., Ph.D.
Mr. Debendramohan Bose, M.A., B.Sc.

At their meeting on the 21st February, 1914, the Senate appointed Mr. S. P. Agharkar, M.A., to the Rashbehary Ghose Professorship of Botany.

The duties of each of the Professors and the conditions of their appointment are defined as follows:—

(*a*) To devote himself to original research in the subject in which he has been appointed, with a view to extend the bounds of knowledge.

(*b*) To stimulate and guide research by advanced students in his special subject in the University College of Science and generally to assist such students in Post-Graduate study and research.

(*c*) To superintend the formation and maintenance of the Laboratory of the College of Science in his own subject.

Conditions of appointment.

(1) The monthly salaries of the Professors shall be as follows :—

		Rs.
Dr. Rashbehary Ghose Professor of Applied	Mathematics ...	600
" " "	of Chemistry ...	500
" " "	of Physics ...	500
" " "	of Botany ...	500

(2) Each Professor shall be a whole-time officer of the University College of Science and shall not, without the special sanction of the Board of Management and of the Senate previously obtained, hold any other office to which any salary, emolument of honorarium is attached.

The University of Calcutta & Acharya P C.Ray 1906-1944

(3) The appointment shall be permanent in the cases of the Professor of Applied Mathematics and the Professor of Chemistry; and shall be for a term of seven years in the cases of the Professor of Physics and the Professor of Botany. No Professor shall be liable to loss of or removal from office or to reduction of the emolument attached thereto on any ground whatsoever, subject, however, to the following provisos:—

(*a*) A Professor shall vacate his office upon completion of the sixtieth year of his age, unless, upon the recommendation of the Board of Management, the Senate is satisfied that his services should, in the interests of research, be still retained by the University, and in such event, the Senate may, on the recommendation of the Board of Management, sanction for such period as may be determined.

(*b*) A Professor may voluntarily resign his appointment at any time upon not less than six months' notice given by him in writing to the Board of Management.

(*c*) A Professor, on retirement on the ground of *either* attainment of age *or* of proved ill-health, will be entitled to receive a gratuity of one month's pay for each completed year's tenure of appointment, but such gratuity shall in no case exceed a maximum limit of eighteen months' salary.

(*d*) A Professor shall be liable to removal by the Senate on the ground of misconduct or neglect of duty, if a recommendation to that effect is made by the Board of Management after a full enquiry into specific charges brought against him; provided that, at such enquiry, the Professor concerned shall be allowed adequate opportunity to defend himself.

(*e*) Every Professor shall be eligible for the privilege of the regular academic vacations. In the event of a Professor requiring leave on account of duly certified ill-health or on urgent private affairs, in addition to the period of the regular academic vacations, the Senate may, on the recommendation of the Board of Management, grant leave on conditions analogous to those prescribed in the Civil Service Regulations for officers in the Indian Educational Service.

A copy of the Minutes of the Proceedings of the Senate of the day is enclosed for ready reference.

As will appear from the terms of Sir Rashbehary Ghose's Trust, the Professor of Applied Mathematics can be paid Rs. 500 a month under such terms, but Dr. Ganes Prasad had accepted the appointment only on condition that his salary be fixed at Rs. 600 per mensem, and this condition was accepted by the Senate at its meeting on the 30th January, 1914.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The following students have been appointed to the Palit Research Scholarships :—

Name.	*Amount.*	*Subject.*
Rasiklal Datta, M.Sc.	Rs. 100	Chemistry.
Nilratan Dhar, M.Sc.	,, 100	Ditto.
Rajendralal De, M.Sc.	,, 75	Ditto.

Of these Nilratan Dhar has just been recommended for the State Scholarship and if he obtains it, another student will be appointed in his place.

The following students have been appointed to the Rashbehary Ghose Research Scholarships :—

Name.	*Amount.*	*Subject.*
Hariprasanna Banerjee, M.Sc.	Rs. 75	Applied Mathematics.
Sudhansukumar Banerjee, M.Sc.	,, 75	Ditto.
Bibhutibhushan Datta, M.Sc.	,, 75	Ditto.

The following gentlemen constitute the Governing Body of Sir T. N. Palit's Trust :—

The Hon'ble Dr. Devaprasad Sarvadhikary, Surimtna, C.I.E., M.A., LL.D., *Vice-Chancellor, President, ex-officio.*

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastrarachaspati*, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.

The Hon'ble Mr. W. W. Hornell, M.A.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. B. Heaton, *Dean of the Faculty of Engineering.*

Elected by the Senate.

Babu Ramendrasundar Trivedi, M.A.
,, Heramchandra Maitra, M.A.
Dr. P. Brühl, D.Sc., I.S.O.
Dr. J. Watt, M.A., D.D.

Donor's Nominees.

Mr. Lokendranath Palit, I.C.S.
The Hon'ble Sir S. P. Sinha, Kt., Bar-at-Law.
The Hon'ble Mr. Justice B. K. Mallik, I.C.S.
The Hon'ble Dr. Nilratan Sarkar, M.A., M.D.

The following gentlemen constitute the Governing Body of Sir Rashbehary Ghose's Trust :

The Hon'ble Dr. Devaprasad Sarvadhikary, Surimtna, C.I.E. M.A., LL.D., *Vice-Chancellor, Ex-officio President.*
The Hon'ble Mr. W. W. Hornell, M.A.

Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
Mr. B. Heaton, *Dean of the Faculty of Engineering.*
Dr. Ganes Prasad, D.Sc.
Dr. P. C. Mitter, M.A., Ph.D.

Elected by the Senate.

Babu Ramendrasundar Trivedi, M.A.
Mr. J. R. Banerjea, M.A., B.L.
Dr. P. Brühl, D.Sc., I.S.O.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.

Founder's Nominees.

The Hon'ble Justice Sir Asutosh Mookerjee, Saraswati, Sastravachaspati, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E.
Dr. P. C. Ray, C.I.E., D.Sc., Ph.D.
The Hon'ble Babu Mahendranath Ray, C.I.E., M.A., B.L.

His Excellency the Chancellor was pleased to indicate in his Convocation speech at the Town Hall on the 6th March last, that His Excellency was not fully aware of the disposition the University proposed for utilization of the donations mentioned above or of Rs. 12,000 a year of Imperial grant which is to be expended on the up-keep of University Laboratories. In this connection it may be stated that a set of special apparatus has been purchased from Messrs. Adam Hilger of London to enable Mr. Raman to carry out important researches in acoustics; these experiments have been carried out up to the present in the Laboratory of the Indian Association for the Cultivation of Science, but will be continued in the University College of Science as soon as the rooms are suitably fitted up. The Research Students in Chemistry who at present are doing chemical research work in the Presidency College under the guidance of Dr. P. C. Ray will continue their work in the College of Science as soon as some of the rooms are fitted up for work in Organic and Inorganic Chemistry. Dr. Ganes Prasad and the three Research Scholars working under him are engaged in important research on Applied Mathematics, and papers written by them have been communicated to the Calcutta Mathematical Society and will shortly be published. Dr. Mitter, the Rashbehary Ghose Professor of Chemistry, is at present superintending the construction of the Science College Building and the fitting up of the Laboratories, and will take charge of the M.Sc. Chemistry Classes, as soon as they are formed.

Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D., Teacher of Medicine at the Campbell Medical School, has obtained the Syndicate's sanction for grant of Rs. 2,000 for instruments to carry out Bio-chemical researches in the University College of Science in continuation of previous researches on the subject and one of the laboratory rooms of the Science College has been temporarily placed at his disposal.

Out of the yearly allotment of Rs. 12,000 sanctioned by the Government of India for the maintenance of the University College of Science chemical apparatus to the value of Rs. 8,062 have been purchased from Messrs. Baird and Tatlock of London, and with the help of those apparatus, supplemented by apparatus manufactured locally and of chemicals locally procured, it is proposed to start work as soon as several rooms on the ground-floor of the Science College Building, which is fast approaching completion, have been fitted up for the purpose. Estimates have been obtained for the purpose, and in order that work may be commenced from the beginning of the next session, the Bengal Chemical and Pharmaceutical Works have been entrusted with the provision of necessary fittings in eight rooms. The Senate is about to be asked for a special grant of Rs. 20,000 out of its funds in addition to the balance of the Government Grants) to meet urgent and unavoidable expenditure in this direction so that the commencement of work may not be delayed beyond July next.

This, however, will be a mere beginning and will by no means meet anything like the absolutely necessary requirements; but it will be helpful in providing accommodation for such M.A. and M.Sc. candidates as cannot be accommodated in the Presidency College.

To meet the deficit in the building bill and the expenditure on account of apparatus, fittings and general equipment, supplementary funds are urgently needed. A sum of Rupees one lakh for buildings and Rupees three lakhs for fittings and apparatus and a grant for maintenance in addition to the present grant of Rs. 12,000 are the urgent requirements that the Hon'ble the Vice-Chancellor and the Syndicate desire to submit for the consideration of the Government.

In view of the nature of the work which the University College of Science proposes to undertake, and the class of research scholars of proved ability who have already shown eagerness to take up investigations under its auspices, the Hon'ble the Vice-Chancellor and the Syndicate would earnestly urge the claims of the College to a subsidy from the Indian Research Fund, intended for the promotion of fruitful investigations in directions in which India offers special facilities

The University of Calcutta & Acharya P.C.Ray 1906-1944

for study. The Hon'ble the Vice-Chancellor and the Syndicate would, under the circumstances, venture to express the hope that the claims of the College may receive due and sympathetic consideration from the authorities entrusted with the management of the Fund.

Finally, the Hon'ble the Vice-Chancellor and the Syndicate desire to place before the Government the immediate necessity of acquiring the still vacant land to the south-west of the present site, which the Hon'ble the Vice-Chancellor pointed out to the Hon'ble Sir Harcourt Butler, when he was good enough to visit the Science College building on the 20th January, 1915. Requisite expansion will be impossible without this piece of land and later on it will be much more costly to acquire than now. The Hon'ble the Vice-Chancellor and the Syndicate also desire to point out the extreme and immediate necessity of building hostels and professors quarters to the west of the college buildings.

The residence of Sir Taraknath Palit at Baliganj, which consists of two large houses and has a large compound, a tank and a *jhil*, may be utilised for the purposes of Higher Botanical and Zoological teaching, when adequate funds are forthcoming for fitting up suitable laboratories.

Class-rooms and residence for students and professors will be found in the existing houses with necessary additions and modifications.

In order fully to utilise the benefactions of Sir Taraknath Palit and Sir Rashbehary Ghose, it is thus of the utmost importance that sufficient assistance should be available as early as possible.

I have the honour to be,

Sir,

Your most obedient servant,

P. BRÜHL,

Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR, 1920.

No. 2.

THE 28TH FEBRUARY, 1920.

Present:

Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S., *in the Chair.*

Dr. G. E. Cullis, Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. C. Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Mr. Jamini Bhushan Ray, Kaviratna, M.A., M.B.
Rev. Dr. J. Watt, M.A., D.D.
Dr. P. C. Mitter, M.A., Ph.D.

Rai Chunilal Basu, Bahadur, was voted to the Chair.

The Faculty met to elect Added Members of the Faculty for the year 1920-21.

The following were the names and statements of qualifications of persons proposed for election :—

Name.	*Proposed by*—
1. Bal, Mr. S. N., M.Sc.	Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Statement of Qualifications.

Assistant Professor of Botany, Calcutta University. He has written several papers in Mycological subject.

2. Banerjee, Mr. Hridaychandra, M.A., B.L.	Mr. D. B. Meek, M.A., B.Sc.

Statement of Qualifications.

Professor of Physics, Presidency College, Calcutta.

3. Banerjee, Mr. Surendrachandra, M.A.	Mr. J. C. Ghosh, M.A.

Statement of Qualifications.

Mr. Banerjee took the M.A. degree in Botany in Class I, in 1907. He has been a very successful Professor of Botany

and has done some excellent original work. He did very good work as an Added Member and as a Member of the Board of Studies in Botany during the last few years.

4. Basu, Mr. Sahayram. M.A. ... Mr. G. C. Bose, M.A., M.R.A.S.

Statement of Qualifications.

M.A. in Botany, Class II, 1908. Professor of Botany, Carmichael Medical College; late Professor of Botany at the Bangabasi College and other Calcutta Colleges. Author of several monographs on Agaricenio (Fungi).

5. Bhadury. Mr. Chandrabhushan, B.A., F.C.S. ... Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D. F.C.S.

Statement of Qualifications.

Late Demonstrator of Chemistry, Presidency College, Calcutta. Was Added Member of the Faculty of Science for Several years past.

6. Bhattacharyya, Mr. Nibarun chandra, M.A. ... Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

Statement of Qualifications.

M.A., B.Sc., Professor of Presidency College, University Lecturer in Physiology, was an Added Member for several years. He served on various Boards of Studies.

7. Dasgupta, Mr. Hemchandra, M.A., F.G.S. ... Rai Chunilal Basu Bahadur, I.S.O., M.B., F.C.S.

Statement of Qualifications.

Professor of Geology, Presidency College, Calcutta, and Lecturer on Geology, Calcutta University; Paper-setter and Examiner in Geology in the Universities of the Punjab and Calcutta.

Author of contributions published in the Journal of the Asiatic Society of Bengal, the Proceedings of the Indian Association for the Cultivation of Science and Indian Science Congress; was an Added Member in 1913, 1915, 1916, 1917, 1918, and 1919.

8. Ghosh, Mr. B. C., M.A., M.B., B.C. ... Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Statement of Qualifications.

M.A. (Cantab), Mathematical and Science Tripos. M.B., B.C. (Cantab). Professor of Physics, Vidyasagar College. Was an Added Member for several years.

Name.	*Proposed by—*
9. Jenkins, Mr. W. A., M.Sc. ...	Rai B. N. Das, Bahadur. M.A., B.Sc.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

(Special.)

FOR THE YEAR, 1920.

No. 3.

THE 19TH MARCH, 1920.

Present :

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Dr. Kedarnath Das, C.I.E., M.D., Dhatri-Vidyarnabe.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
„ J. C. Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rev. Dr. J. Watt, M.A., D.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.
Dr. D. Thomson, M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
Mr Surendrachandra Banerjee, M.A.

The Faculty met to elect Boards of Studies numbering 10-15 and 16-19. The number of members which the Faculty had to elect to each of the Boards of Studies numbering 16-19, had been determined by the Syndicate as follows :—

	Name of Board.	No. of members to be elected by the Faculty of Science.
16.	Experimental Psychology ...	... Not more than two.
17.	Mathematics ...	... „ „
18.	Geography ...	... Not more than six.
19.	Teaching ...	... Not more than three.

The undermentioned gentlemen were nominated for election to the Boards under which their names appeared :—

(10) Board of Studies in Chemistry.

1. Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
2. Rai Upendranath Brahmachary, Bahadur, M.A., M.D., Ph.D.
3. Mr. G. C. Bose, M.A., M.R.A.S.
4. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.,
5. Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.

6. Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7. Mr. J. C. Ghosh, M.A.
8. Rai Kumudinikanta Banerjee, Bahadur, M.A.
9. Mr. Jaminibhushan Ray, M.A., M.B.
10. Rev. Dr. J. Watt, M.A., D.D.
11. Rai B. N. Das, Bahadur, M.A., B.Sc.
12. Dr. P. C. Mitter, M.A., Ph.D.
13. Dr. D. Thomson, M.A., Ph.D.

11) Board of Studies in Mathematical and Experimental Physics.

1. Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
2. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
3. Dr. C. E. Cullis, Ph.D.
4. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
5. Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.
6. Mr. J. C. Ghosh, M.A.
7. Rai Kumudinikanta Banerjee, Bahadur, M.A.
8. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
9. Rev. Dr. J. Watt, M.A., D.D.
10. Rai B. N. Das, Bahadur, M.A.
11. Mr. D. B. Meek, M.A., B.Sc.
12. Rai Abinaschandra Bose, Bahadur, M.A.

(12) Board of Studies in Zoology.

1. The Hon'ble Sir Nilratan Sarkar, Kt., M.A., M.D.
2. Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
3. Dr. Kedarnath Das, C.I.E., M.D.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
5. Mr. G. C. Bose, M.A., M.R.A.S.
6. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
7. Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.
8. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
9. Rev. Dr. J. Watt, M.A., D.D.
10. Lt-Col. D. McCay, M.D., I.M.S.

(13) Board of Studies in Geology and Mineralogy.

1. Mr. G. C. Bose, M.A., M.R.A.S.
2. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
3. Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.
4. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.,
5. Rev. Dr. J. Watt, M.A., D.D.
6. Rai B. N. Das, Bahadur, M.A., B.Sc.
7. Mr. D. B. Meek, M.A., B.Sc.
8. Rai Abinaschandra Bose, Bahadur, M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

(*14*) *Board of Studies in Botany.*

1. The Hon'ble Sir Nilratan Sirkar, Kt., M.A., M.D.
2. Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
3. Dr. Kedarnath Das, C.I.E., M.D.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
5. Mr. G. C. Bose, M.A., M.R.A.S.
6. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
7. Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.
8. Mr. Jaminibhushan Ray, M.A., M.B.
9. Rev. Dr. J. Watt, M.A., D.D.
10. Dr. P. C. Mitter, M.A., Ph.D.
11. Rai B. N. Das, Bahadur, M.A., B.Sc.
12. Lt.-Col. D. McCay, M.D., I.M.S.
13. Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.
14. Mr. Surendrachandra Banerjee, M.A.

(*15*) *Board of Studies in Physiology.*

1. The Hon'ble Sir Nilratan Sarkar, Kt., M.A., M.D.
2. Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.
3. Dr. Kedarnath Das, C.I.E., M.D.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
5. Mr. G. C. Bose, M.A., M.R.A.S.
6. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
7. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
8. Lt.-Col. D. McCay, M.D., I.M.S.
9. Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.
10. Mr. Surendrachandra Banerjee, M.A.

(*16*) *Board of Studies in Experimental Psychology.*

(Not more than 2 to be elected.)

1. The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
2. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.

(*17*) *Board of Studies in Mathematics.*

(Not more than 2 to be elected.)

1. Mr. J. C. Ghosh, M.A.
2. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
3. Mr. K. L. Datta, M.A., F.S.S., F.R.E.S.

(*18*) *Board of Studies in Geography.*

(Not more than 6 to be elected.)

1. Mr. G. C. Bose, M.A., M.R.A.S.
2. Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
3. Mr. J. C. Ghosh, M.A.

4. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
5. Rai Kumudinikanta Banerjee, Bahadur, M.A.
6. Rev. Dr. J. Watt, M.A., D.D.
7. Dr. P. C. Mitter, M.A., Ph.D.
8. Rai B. N. Das, Bahadur, M.A., B.Sc.

(*19*) *Board of Studies in Teaching.*

(Not more than 5 to be elected.)

1. Mr. G. C. Bose, M.A., M.R.A.S.
2. ,, J. C. Ghosh, M.A.
3. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
4. Rev. Dr. J. Watt, M.A., D.D.

The following statement of attendance of members of the various Boards during the session 1919-20 had also been circulated :—

	Number of meetings held.	Number of meetings attend.
(*10*) *Board of Studies in Chemistry.*		
1. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *President* ...	3	1
2. Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S. ...		3
3. Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.		Nil.
4. Mr. J. C. Ghosh, M.A. ...		3
5. Rev. Dr. J. Watt, M.A., D.D. ...		2
6. Rai B. N. Das, Bahadur, M.A., B.Sc.		2
7. Dr. P. C. Mitter, M.A., Ph.D. ...		2
8. Dr. D. Thomson, M.A., B.Sc., Ph.D.		Nil.
9. Mr. Chandrabhushan Bhaduri, B.A. F.C.S.		2
10. Dr. Bimanbihari De, D.Sc. ...		3
11. Dr. Amiyalehandra Sarkar, M.A., Ph.D., F.C.S.		3
(*11*) *Board of Studies in Mathematical and Experimental Physics.*		
1. Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E., *President*	4	4
2. Mr. J. C. Ghosh, M.A. ...		4
3. Rai Kumudinikana Banerjee, Bahadur, M.A.		2
4. Rai B. N. Das, Bahadur, M.A., B.Sc.		1
5. Mr. D. B. Monk, M.A., B.Sc. ...		Nil.
6. Rai Ahinsachandra Bose, Bahadur, M.A.		2
7. Dr. Bimanbihari De, D.Sc. ...		2

		Number of meetings held.	Number of meetings attend.
8.	Mr. B. C. Ghosh, M.A., M.B., B.C....		1
9.	Mr. W. A. Jenkins, M.Sc. ...		1
10.	Dr. Anukulchandra Sarkar, M.A., Ph.D., F.C.S.		3

(*12*) *Board of Studies in Zoology.*

1.	The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D., *President* ...	5	1
2.	Lt.-Col. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D., I.M.S. ...		1
3.	Rai Chunilal Basu, Bahadur, I.S.O. M.B., F.C.S.		2
4.	Dr. Kedarnath Das, C.I.E., M.D. ...		Nil
5.	Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D. ...		Nil.
6.	Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.		2
7.	Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S.		3
8.	Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.		1
9.	Dr. Bidhanchandra Ray, B.A., M.D., F.R.C.S., M.R.C.P.		Nil.
10.	L.-Col. D. McCay, M.D., I.M.S. ...		Nil.
11.	Dr. F. H. Gravely, D.Sc. ...		1
12.	Mr. B. C. Ghosh, M.A., M.B., B.C. ...		2

(*13*) *Board of Studies in in Geology and Mineralogy.*

1.	Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S., *President*	3	3
2.	Mr. G. C. Bose, M.A., M.R.A.S.		3
3.	Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.		1
4.	Rev. Dr. J. Watt, M.A., D.D. ...		Nil.
5.	Dr. F. H. Gravely, D.Sc. ...		Nil.
6.	Rai B. N. Das, Bahadur, M.A., B.Sc.		...
7.	D. B. Meek, M.A., B.Sc. ...		Nil.
8.	Rai Abinaschandra Bose, Bahadur, M.A.		1
9.	Mr. Hemchandra Dasgupta, M.A., F.G.S.		2
10.	Mr. W. A. Jenkins, M.Sc. ...		1
11.	Dr. Anukulchandra Sarkar, M.A., Ph.D., F.C.S.		2

The University of Calcutta & Acharya P.C.Ray 1906-1944

		Number of meetings held.	Number of meetings attend.
	(14) Board of Studies in Botany.		
1.	Dr. P. J. Brühl, I.S.O., D.Sc., F.C.S., F.G.S., *President*	3	3
2.	Lt.-Col. Suresprasad Sarbadhikari, C.I.E., B.A., M.D., I.M.S. ...		1
3.	Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.		3
4.	Dr. Kedarnath Das, C.I.E., M.D. ...		Nil.
5.	Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D. ...		1
6.	Mr. G. C. Bose, M.A., M.R.A.S. ...		3
7.	S. C. Mahalanabis, B.Sc., F.R.S.E. ...		2
8.	Dr. Bidhanchandra Ray, B.A. M.D., F.R.C.S. M.R.C.P.		Nil
9.	Lt.-Col. D. McCay, M.D., I.M.S. ...		Nil
10.	Surendrachandra Banerjee, M.A. ...		2
11.	Mr. Hemchandra Dasgupta, M.A., F.G.S.		3
12.	Dr. Bimanbihari De, D.Sc. ...		2
	(15) Board of Studies in Physiology.		
1.	Mr. S. C. Mahalanabis, B.Sc., F.R.S.E., *President*	3	3
2.	The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.		Nil.
3.	Lt.-Col. Suresprasad Sarbadhikari, C.I.E., B.A., M.D., I.M.S. ...		1
4.	Rai Chunilal Basu, Bahadur, I.S.O., M.B., F.C.S.		3
5.	Dr. Kedarnath Das, C.I.E., M.D. ...		Nil
6.	Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D. ..		1
7.	G. C. Bose, M.A., M.R.A.S. ...		3
8.	Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.		2
9.	Dr. Bidhanchandra Ray, B.A., M.D., F.R.C.S., M.R.C.P.		Nil.
10.	Lt.-Col. D. McCay M.D., I.M.S. ...		Nil.
11.	Mr. Surendrachandra Banerjee, M A.		1
12.	Mr. B. C. Ghosh, M.A., M.B., B.C. ...		1
	(16) Board of Studies in Experimental Psychology.		
1.	Dr. H. Stephen, M.A., D.D., *President*	2	2
2.	The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.		Nil.

		Number of meetings held.	Number of meetings attend.
3.	Dr. Brajendranath Seal, M.A., Ph.D.		2
4.	S. C. Mahalanabis, B.Sc., F.R.S.E. ...		1
5.	Dr. Hiralal Haldar, M.A., Ph.D. ...		2
6.	Rev. Dr. W. S. Urquhart, M.A., D.Phil.		2
7.	Mr. B. C. Ghosh, M.A., M.B., B.C. ...		1
	(17), Board of Studies in Mathematics.		
1.	The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I. *President* ...	4	4
2.	The Hon'ble Mr. Mahendranath Ray, C.I.E., M.A., P.L.		Nil.
3.	Dr. C. E. Cullis, Ph.D. ...		2
4.	Mr. F. C Turner, M.A. ...		Nil.
5.	Dr. S. C. Bagchi, B.A., LL.B., LL.D.		3
6.	J. C. Ghosh, M.A.		4
7.	Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.		3
8.	Mr. Birajmohan Majumdar, M.A., B.L.		4
9.	Apurbachandra Datta, B.A. ...		2
10.	Mr. Manmathanath Ray, M.A., B.L.		4
11.	Rai A. C. Bose, Bahadur, M.A. ...		4
12.	J.M. Bottomley, B.A., ...		Nil.
	(18) Board of Studies in Geography.		
1.	Mr. Birajmohan Majumdar. M.A., B. L., *President*	3	3
2.	Mr. Adharchandra Mukerjee. M.A., B.L.		3
3.	Mr. G. C. Bose, M.A., M.R.A.C. ...		3
4.	Mr. J. C. Ghosh, M.A. ...		3
5.	Dr. D. N. Mallik, B.A., Sc.D. F.R.S.E.		2
6.	E. E. Biss		Nil.
7.	Rev. Dr. J. Watt, M.A., D.D. ...		1
8.	Rai B. N. Das, Bahadur, M.A., B.Sc.		2
9.	Mr. W. K. Griffith, M.A. ...		1
10.	Mr. D. B. Meek, M.A., B.Sc. ...		Nil.
11.	Mr. Hemchandra Dasgupta, M.A., F.G.S.		3
	(19 Board of Studies in Teaching.		
1.	Dr. Brajendranath Seal, M.A., Ph.D., *President*	4	4
2.	Mr. G. C. Bose, M.A., M.R.A.S. ...		3

		Number of meetings held.	Number of meetings attend
3.	Mahamahopadhyay Dr. Satischandra Vidyabhushan, M.A., Ph.D. ...		4
4.	Mr. F. C. Turner, M.A. ...		Nil.
5.	Mr. J. C. Ghosh, M.A.		4
6.	Mr. E. E. Biss		Nil
7.	Dr. J. Watt, M.A., D.D. ...		2
8.	Mr. W. E. Griffith, M.A. ...		2
9.	Rev. Dr. W. S. Urquhart, M.A., D.Phil.		3
10.	Dr. Harendracoomar Mookerjee, M.A., Ph.D.		4

The names of the following gentlemen were withdrawn at their request from the respective Boards :

Chemistry.

Dr. D. Thomson, M.A., Ph.D.

Zoology.

Rev. Dr. J. Watt, M.A., D.D.

Botany.

Rev. Dr. J. Watt, M.A., D.D.
Dr. P. C. Mitter, M.A., Ph.D.
Rai B. N. Das, Bahadur, M.A., B.Sc.

Geography.

Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. C. Mitter, M.A., Ph.D.

Teaching.

Mr. J. C. Ghosh, M.A.

A ballot was taken in Mathematics only, as in the case of all the other Boards, the number of candidates did not exceed the number of vacancies.

After a scrutiny of the ballot papers, the Dean declared that the Boards of Studies for 1920-21 had been constituted as follows :—

Board of Studies in Chemistry.

Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
„ Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A., M.B.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.G.S.

Mr. J. C. Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Mr. Jaminibhushan Ray, M.A., M.B.
Rev. Dr. J. Watt, M.A., D.D.
Rai B. N. Das, Bahadur, M.A., B.Sc.
Dr. P. C. Mitter, M.A., Ph.D.

Board of Studies in Mathematical and Experimental Physics.

Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Dr. C. E. Cullis, Ph.D.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. C. Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rev. Dr. J. Watt, M.A., D.D.
Rai B. N. Das, Bahadur, M.A.
Mr. D. B. Meek, M.A., B.Sc.
Rai Abinaschandra Bose, Bahadur, M.A.

Board of Studies in Zoology.

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Dr. Kedarnath Das, C.I.E., M.D., Dhatri-Vidyarnaba.
Dr. Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
„ D. N. Mallik, B.A., Sc.D., F.R.S.E.
Lt.-Col. D. McCay, M.D., I.M.S.

Board of Studies in Geology and Mineralogy.

Mr. G. C. Bose, M.A., M.R.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
„ D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rev. Dr. J. Watt, M.A., D.D.
Rai B. N. Das Bahadur, M.A., B.Sc.
Mr. D. B. Meek, M.A., B.Sc.
Rai Abinaschandra Bose, Bahadur, M.A.

Board of Studies in Botany.

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Dr. Kedarnath Das, C.I.E., M.D., Dhatri-Vidyarnaba.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.

The University of Calcutta & Acharya P C.Ray 1906-1944

Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. Jaminibhushan Ray, Kabiratna, M.A., M.B.
Lt.-Col. D. McCay, M.D., I.M.S.
Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.
Mr. Surendrachandra Banerjee, M.A.

Board of Studies in Physiology.

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
Rái Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Dr. Kedarnath Das, C.I.E., M.D., Dhatri-Vidyarnaba.,
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Lt.-Col. D. McCay, M.D., I.M.S.
Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.
Mr. Surendrachandra Banerjee, M.A.

Board of Studies in Experimental Psychology.

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.

Board of Studies in Mathematics

Mr. J. C. Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.

Board of Studies in Geography.

Mr. G. C. Bose, M.A., M.R.A.S.
„ J. C. Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Rev. Dr. J. Watt, M.A., D.D.
Rai B. N. Das, Bahadur, M.A. B.Sc.

Board of Studies in Teaching.

Mr. G. C. Bose, M.A., M.R.A.S.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rev. Dr. J. Watt, M.A., D.D.

(Confirmed.)

PRAPHULLACHANDRA RAY, *Dean.* **J. C. GHOSH,** *Registrar.*

Minutes of the Senate

FOR THE YEAR 1920

No: 8.

THE 20TH MARCH, 1920

Present:

The Hon'ble Sir Hiralal Sircar, Kt., M.A., M.D., *Vice-Chancellor, in the Chair.*

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D
Mr. Hemendrachandra Maitra, M.A.
The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
Mr. Adharchandra Mukerjee, M.A., B.L.
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Dr. Kedarnath Das, C.I.E., M.D.
Dr. Brajendranath Seal, M.A., Ph.D.
Mr. G. C. Bose, M.A., M.R.A.S.
Mr. J. N. Dus Gupta, B.A. (Oxon), Bar-at-Law.
Mr. S. C. Mahalanobis, B.Sc., F.H.E.E.
Dr. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Mahamahopadhyay Dr. S. C. Vidyabhushan, M.A., Ph.D.
Mr. J. C. Ghosh, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Dr. B. C. Bagchi, B.A., LL.B., LL.D.
Rai Sahab Dineschandra Sen, B.A
Mr. J. E. Banerjea, M.A., B.L.
Mr. Sirajuddhan Majumdar, M.A., B.L
Rai Hiralal Haldar, M.A., Ph.D.
Mr. Satischandra Ray, M.A.,
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
Dr. Bidhanchandra Rav, M.D., M.R.C.P., F.R.C.S.
Rev. Dr. W. S. Urquhart, M.A., D.Phil.
Mr. Z. R. Zahid Suhrawardy, M.A., B.L.
Dr. P. C. Mitter, M.A., Ph.D.
Mr. Manmathanath Ray, M.A., B.L.
Mr. D. R. Bhandarkar, M.A.
The Hon'ble Mr. F. A. A. Cowley, C.I.E.
The Hon'ble Dr. A. Suhrawardy, M.A., Ph.D., D.Litt, Bar-at-Law.
Dr. D. Thompson, M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
Dr. Harendrakumar Mookerjee, M.A., Ph.D.
Mr. Pramathanath Banerjee, M.A., B.L.
Maulavi Aga Md. Kazim Shirazi.
Dr. H. Suhrawardy, F.R.C.S., L.M., M.D.
Mr. E. F Oaten, M.A., LL.B.

The Senate proceeded to consider the following Report of the Committee appointed by the Senate to deal with the Report of the Calcutta University Commission.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science.

FOR THE YEAR, 1920

No. 4.

THE 25TH JUNE, 1920.

Present :

Sir Prafullachandra Ray, Kt., C.S.I., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Mr. G. C. Bose, M.A., M.R.A.S.
Mr. J. C. Ghosh, M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Dr. P. C. Mitter, M.A., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
Mr. Surendrachandra Banerjee, M.A.

The Faculty proceeded to elect two Representatives on the Council of Post-Graduate Teaching in Science for the year 1920-21.

The following gentlemen were proposed for election :—

1. Mr. J. C. Ghosh, M.A. ... Proposed by Dr. P. C. Mitter. Seconded by Rai A. C. Bose, Bahadur.

2. Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D. Proposed by Rai A. C. Bose, Bahadur. Seconded by Dr. P. C. Mitter.

As the number of persons proposed did not exceed the number to be elected, the Dean declared both the gentlemen, namely, Mr. J. C. Ghosh, and Rai Bahadur, Dr. Upendranath Brahmachari duly elected.

The Faculty next proceeded to elect a representative, out of the two nominees on the Council, on the Executive Committee of the Council of the Post-Graduate Teaching in Science for the year 1920-21.

Dr. P. C. Mitter proposed and Rai A. C. Bose, Bahadur, seconded, that Mr. J. C. Ghosh be elected to the Executive Committee of the Council of Post-Graduate Teaching in Science for the year 1920-21.

As there was no other proposal before the Faculty the Dean declared Mr. J. C. Ghosh duly elected.

(Confirmed.)

P. C. RAY.
Dean.

J. C. GHOSH.
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate.

FOR THE YEAR 1920.

No 14.

THE 14TH AUGUST, 1920.

Present:

The Hon'ble Sir Nilratan Sircar, Kt., M.A., M.D., *Vice-Chancellor, in the Chair.*

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., *Offg. Chief Justice of Bengal.*

Sir Kailaschandra Bose, Kt., C.I.E., O.B.E., L.M.S.

Mr. Hemendrachandra Maitra, M.A.

The Hon'ble Sir Devaprasad Sarbadhikary, Kt., C.I.E. M.A., LL.D.

Rai Chunilal Bose, Bahadur, I.S.O., M.B., F.C.S.

Dr. Kedarnath Das, Dhatri-Vidyarnava, C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Mr. G. C. Bose, M.A., M.R.A.S

Mr. J. N. Das Gupta, B.A. (Oxon)., Barrister-at-law.

Mr. S. C. Mahalanabis, B Sc., D.I.R.S.E.

Mr. P. J Brühl, D.Sc., I.S.O., F.C.S. F.G.S.

The Hon'ble Nawab Sir Syed Shamsul-Huda, K.C.I.E., M.A., B.L.

Mr. J. C. Ghosh, M.A.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Dr. S. C. Bagchi, B A., LL B., LL.D.

Rai Saheb Dineschandra Sen, B.A.

Mr. J. R. Banerjea, M.A., B.L.

Mr. Birajmohan Majumdar, M.A., B.L.

The Hon'ble Mr. Justice Abdul Majid, B.A., LL.B.

Lt.-Col. B. H. Deare, M.B., M.R.C.P., D P.H., I.M.S.

Rev. Father F. X. Crohan, S. J.

Dr. Hiralal Haldar, M.A., Ph.D.

Rev Dr. J. Watt, M.A., D D.

Mr. T. R. Richardson, M.A., F.A.I., M.I C.E.

Rai Bhupatinath Das, Bahadur, M.A., B Sc.

Mr. W. E. Griffith, M.A.

Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P. (Lond), F.R.C.S. (Eng)

Dr. Dwarkanath Mitra, M.A., D.L.

Rev. Dr. W. S. Urquhart, M A., D.Phil.

Mr. Z. R. Zahir Suhrawardy, M.A., B.L., Barrister-at-Law.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Dr. Bose was interned in Germany he was permitted to attend the University of Berlin. Dr. Bose had written a thesis for which the degree of Doctor of Philosophy was conferred upon him.

Mr. J. R. Banerjea seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that Dr. S. P. Agharkar, M.A., Ph.D., be re-appointed Sir Rashbehary Ghose Professor of Botany, on the same terms as were approved in the case of Dr. P. C. Mitter, M.A., Ph.D., Sir Rashbehary Ghose Professor of Chemistry, on the 30th January, 1914.

The Mover said that Dr. Agharkar went to Germany at the same time as Dr. Bose, but he was detained there longer than Dr. Bose. Dr. Agharkar was allowed to work in Germany during the period of his detention and he had also taken the Degree of Doctor of Philosophy.

Dr. P. C. Mitter seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that extension of leave from 2nd May to 16th July, 1920, be granted to Professor S. P. Agharkar.

The Mover said that this was purely a formal matter as Professor Agharkar could not return till the 10th July, 1920.

Rai Chunilal Basu Bahadur seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that the time for the submission of manuscript of the lectures by Mr. K. Subramaniam, M.A., M.L., Tagore Law Professor for 1920, be extended to 30th September, 1920.

The mover said that the manuscript was due for delivery by the end of this month, but Mr. Subramaniam had written to say that he would require about a month's time to put the manuscript in shape and he desired that the time should be extended.

Dr. Dwarkanath Mitra seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved, on behalf of the Syndicate, that Sir P. C. Ray, Kt., DSc., Ph.D., F.C.S., Sir T. N. Palit Professor of Chemistry, be granted five months' leave with full pay, with effect from 20th August, 1920, or from such date as he availed himself of it, to enable him to

study in England at first hand the latest developments in Chemical and Technological Research.

The Mover said that Sir Rashbehary Ghose had given to the University another very large gift in order to initiate a Technological Department in the University. It was thought highly desirable that Sir P. C. Ray should be given an opportunity for the purpose of acquainting himself with the latest developments at first hand before any action was taken by the Senate.

Dr. P. C. Mitter seconded the motion, which was carried.

The Hon'ble Sir Asutosh Mookerjee moved that the Proceedings of the Governing Body of the University College of Science, dated the 21st July, 1920, be confirmed.

The Mover said that these proceedings were to the effect that the allowance granted to the menials of the Science College be continued for a further period of six months.

Report of the work of the Council of Post-Graduate Teaching in Science for the Session 1919-20

During the session 1919-20, instruction was given in (1) Applied Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Physiology, (6) Geology and (7) Zoology.

The following table shows the number of students in the different Post-Graduate classes on the 17th of April, 1920, the date on which lectures for the session were closed :—

		5th-year.	6th-year.
I.	Applied Mathematics	23	10
II.	Physics	23	19
III.	Chemistry	21	22
IV.	Botany	1	2
V.	Physiology	6	4
VI.	Geology	3	2
VII.	Zoology	1	...
		78	59
	Grand Total	= 137	

The following gentlemen constituted the teaching staff in the different subjects :—

I—Applied Mathematics.

Dr. Sudhansukumar Banerjee, M.Sc., Silver Medallist, 1914; P. R. Student, 1915; D.Sc., 1918; Sir Rashbehary Ghosh Professor.

Mr. Nalinimohan Basu, M.Sc., Gold Medallist, 1914; formerly Professor, C. M. S College, Calcutta.

„ Satyendranath Bose, M.Sc., Gold Medallist, 1915.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Summary of Hours of Weekly Lecture Work.

Name.		5th-year.	6th-year.
Mr. P. C. Mahalanabis	...	3	3
„ S. K. Acharyya	...	3	3
„ A. C. Saha	...	3	3
„ J. C. Mookerjee	...	3	3
Prof. S. K. Banerjee	...	3	3
Mr. S. N. Bose	...	3	2
„ P. N. Ghosh	...	3	3
„ S. K. Mitra	...	3	2
Dr. M. Saha	...	3	3
Mr. D. K. Majumdar	...	...	2
„ C. C. Bhattacharyya	...	...	2
Dr. D. N. Mallik	...	...	2

A public lecture on the Acoustical knowledge of the ancient Hindus was delivered by Prof. C. V. Raman. The lecture was also intended for the benefit of Post-graduate students.

A syllabus of the lectures on X-Rays prepared by Mr. A. C. Saha was printed by the University and circulated to the students.

III—Chemistry.

The lecturing work in Chemistry was distributed as follows :—

FIFTH AND SIXTH-YEAR CLASSES.

ORGANIC CHEMISTRY.

Dr. P. C. Mitter	... Heterocyclic Compounds, Natural Dyes and Alkaloids (A).
„ B. B. Dey	... Aromatic, Homocyclic Compounds and Alkaloids (B).
„ R. L. Datta	... Aliphatic Compounds, Terpenes and Camphors.

INORGANIC CHEMISTRY.

Sir P. C. Ray	...	Historical.
Mr. B. B. Datta	...	General; Metals (I).
„ P. B. Sarkar	...	Metals (II).
„ P. R. Ray	...	Non-metals.

The University of Calcutta & Acharya P.C.Ray 1906-1944

PHYSICAL CHEMISTRY.

Mr. J. B. Bhaduri	...	Chemical Statics and Dynamics; Phase rule and its application; Influence of temperature in Chemical Equilibrium; Catalysis.
Mr. Asutosh Maitra	...	Thermodynamics; Theory of solutions; Electro-Chemistry.

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Appendix A.

POST-GRADUATE TEACHERS IN SCIENCE 1919-20.

***

Chemistry.

Babu Jyotibhushan Bhaduri, M.A.	...	...	100
„ Bidhubhushan Datta, M.A.	...	...	100
Dr. Rasiklal Datta, D.Sc.	...	...	250
„ B. B. Dey, D.Sc.	...	...	100
„ Jnanendrachandra Ghosh, D.Sc.	...	...	225

***

			Rs.
Babu Asutosh Maitra, M.A.	...	...	100
Dr. P. C. Mitter, M.A., Ph.D.	...	...	500
Babu Jnanendranath Mookerjee, M.Sc.	...	...	225
Sir P. C. Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S.		...	950
Babu Priyalaranjan Ray, M.A.	...	...	250
„ Pulinbihari Sarkar, M.Sc.	...	...	150

***

Post-Graduate Teaching

[Professors and Lecturers]

1920-21

***

CHEMISTRY.

1.	Sir P. C. Ray (*Palit Professor*) gr. 800-1,0000		900	0	0
2.	Dr. P. C. Mitter (*Ghose Professor*)	...	600	0	0
3.	„ Jnanendrachandra Ghosh (on leave)	...	100	0	0
4.	Mr. Jnanendranath Mookerjee (on leave)	...	100	0	0

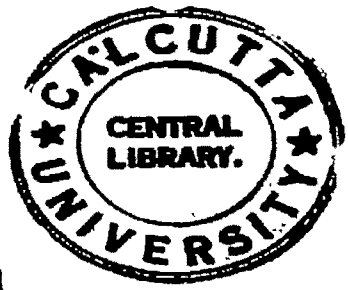
University of Calcutta

MINUTES

FOR THE YEAR

1921

PART II



CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

4. Read a memorandum from the Secretary to the Government of India, Department of Education, forwarding copy of his letter No. 501, dated the 31st March, 1921, addressed to the Secretary to the Government of Bengal, Education Department, in which it is intimated that the case of Mr. Kuludacharan Dasgupta, B.A., who has been selected by this University for the State Scholarship tenable abroad by Indians has been transferred to the Government of Bengal for disposal.

ORDERED—

To be recorded.

5. Read a letter from Sir Praphullachandra Ray, Kt., C.I.E., reporting that at the last meeting of the Governing Body of the Sir Taraknath Palit Trusts, Mr. Kalikumar Kumar, M.Sc., was appointed Demonstrator in Chemistry with effect from the 1st of April, 1921. and suggesting that his appointment may be made with effect from the 1st of March, 1921. instead of from the 1st of April, 1921, on the ground that he has been working all this time since the expiry of the tenure of his scholarship on the 28th of February, 1921.

RESOLVED—

That the suggestion made by Sir Praphullachandra Ray, Kt., C.I.E., be adopted, and that the recommendations as amended, be placed before the Senate.

6. The Registrar reported that he had addressed the following letter to the Secretary to the Government of Bengal, Department of Education, on the subject of the answers given by the Hon'ble the Minister in charge of Education to a question put at the meeting of the Bengal Legislative Council on the 1st April, 1921.

"No. $\frac{G}{428}$

FROM

J. C. GHOSH, Esq., M.A.

Registrar, University of Calcutta,

To

THE SECRETARY TO THE GOVERNMENT OF BENGAL,

Department of Education.

Senate House, the 2nd April, 1921.

Sir,

I am directed to refer to the answers given by the Hon'ble the Minister in charge of Education to starred question No. XVIII at the meeting of the Bengal Legislative Council held on the 1st April, 1921, and to point out that some of the statements contained in the answers are contrary to fact.

(Pass and Honours) for the B.A. and B.Sc. Examinations of 1922.

ORDERED—

To be recorded.

9. Read a report from the Controller that Nalinchandra Chakrabarti (Final M.B. Roll Cal. 31) was expelled from the Examination Hall on the 9th April, 1921, for violating examination rules.

ORDERED—

To be recorded.

10. Read a letter from the Principal, Earle Law College, Gauhati, enquiring whether all the leading cases numbering about 100 prescribed for each of the Intermediate and Final Law Examinations have to be studied by the students. He points out that all the cases have not been printed in the University selection nor are they to be found in any one book published by any author.

RESOLVED—

That the letter be referred to the Board of Studies in Law.

11. RESOLVED—

That the following additional Inspectors be appointed to conduct the Annual Inspection of affiliated Colleges during the session 1921-22 jointly with the University Inspector of Colleges—

Presidency College	...	Dr. H. Stephen, M.A., D.D. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D., Sir P. C. Ray, Kt., C.I.E., DSc., Ph.D., F.C.S.
S. C. College	...	Dr. P. C. Mitter, M.A., Ph.D.
Vidyasagar College	...	Dr. Jnaneswar Ghosh, M.A., Ph.D.
City College	...	Rai Bahadur K. K. Banerjee, M.A.
Ripon College	...	Dr. Sudhansukumar Banerjee, D.Sc.
Bangabasi College	...	Dr. H. K. Sen, M.A., D.Sc.
St. Xavier's College	...	Dr. D. M. Bose, M.A., B.Sc., Ph.D.
St. Paul's C. M. College	...	Rai B. N. Das Bahadur, M.A., B.Sc
Sanskrit College	...	Prof. D. R. Bhandarkar, M.A.
Central College	...	Mr. J. C. Coyajee, B.A., LL.B.
Bethune College	...	Sister Mary Victoria.
Loreto House	...	Mrs. Rajkumari Das, M.A.
Diocesan College	...	Mrs. P. Chowdhury, B.A.
South Suburban College	...	Mr. Ambicacharan Mitra, M.A.
Edward College, Pabna	...	Mr. T. S. Sterling, M.A.
David Hare Training College	...	Rev. A. E. Brown, M.A., B.Sc.
Indian Association for the Cultivation of Science.		Mr. G. C. Bose, M.A., M.R.A.S.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1921.

No. 20.

THE 19TH APRIL, 1921.

(In Circulation.)

Read the following Proceedings of the Governing Body of the Sir Taraknath Palit Trusts, dated the 16th April, 1921 :—

"Proceedings of the Governing Body of the Sir T. N. Palit Trusts.

THE 15TH APRIL, 1921.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *President in the Chair.*

Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Professor J. R. Banerjea, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.
Professor C. V. Raman, M.A.

" Read a letter from the Secretary, Imperial College of Science and Technology, London, reporting that, on an application from Mr. Snehamay Datta, one of the Palit Foreign Scholars for 1919 for a loan to assist him to continue his studies until the end of this session, the College authorities have decided to lend him £. 3 per month for the four months ending 30th June, 1921.

Read also a letter from Mr. Snehamay Datta, stating that, owing to the sudden fall in the rate of exchange, he finds it difficult to meet his expenses in England and praying that his scholarship may be increased.

RESOLVED—

(1) That a sum of £: 12 be remitted to Mr. Datta to enable him to repay the sum advanced by the authorities of the Imperial College of Science and Technology.

(2) That the sum payable on account of Mr. Datta be increased by Rs. 300 per quarter with effect from the current

quarter and that the matter be brought up for consideration when the total sum paid on his account reaches Rs. 10,000 (the amount secured by the bond, dated 11th July, 1919).

(3) That the authorities of the Imperial College of Science and Technology be thanked for the assistance they have generously given to Mr. Datta.

Read a letter from Mr. Jnanendranath Mookerjee, Sir Tarakanath Palit Scholar, requesting that, as he intends to come back to Calcutta in September next, the quarterly instalment of his scholarship due in August, may be remitted along with the instalment due in May, and that a sum of Rs. 500 in addition to Rs. 1,000 already sanctioned for his return passage may be remitted along with the Scholarship.

Note—Rs. 10,800 for scholarship payable in three years at the rate of Rs. 300 a month, Rs. 1,500 for outfit and passage and Rs. 1,000 for return passage *i.e.*, Rs. 13,300 in all, was sanctioned for him ; and he executed a bond for that amount. Up to date he has drawn Rs. 8,024-10-0. There is still a balance of Rs. 5,275-6-0 to his credit. He now applies for payment of Rs. 3,300, viz. Rs. 1,800 for Scholarship and Rs. 1,500 for return passage.

RESOLVED—

That Mr. Mookerjee be requested to state fully his reasons for desiring to return to India before the expiry of the term of his scholarship which was awarded to him, on his application, for three years from September, 1919, to August, 1922.

Read an application from Mr. Brajendranath Chakrabarti, Assistant to the Palit Professor of Physics, for leave for the period from the 5th to the 16th April, 1921.

RESOLVED—

That the application be granted.

The Registrar stated that from an answer given by the Hon'ble the Minister in charge of Education to starred question No. XVIII at the meeting of the Bengal Legislative Council held on the 1st April, 1921, it had transpired that Dr. Jnanendrachandra Ghosh, who had obtained a Palit Foreign Scholarship by executing a bond on the 5th August, 1919, had been appointed Professor of Chemistry in the University of Dacca.

The bond is as follows :—

Stamp Rs. 67-8-0.

KNOW ALL MEN by these presents that I Jnanendra chandra Ghosh son of Ramchandra Ghose residing at 24-1

Madan Mitter Lane in the town of Calcutta by caste Hindu Kayastha by occupation Lecturer, University of Calcutta, hereinbefore called the "obligor" and held and bound unto the University of Calcutta a body politic and corporate incorporated by and under Act II of 1857 of the Governor General in India in Council its successors in office in the aggregate sum of Rupees thirteen thousand three hundred that may be from time to time spent for me the obligor by the said University in terms of the Deed of Trust dated the 8th day of October, 1912, hereinafter recited in respect of the Scholarship in the said Deed of Trust mentioned together with interest on the total sum so spent at the rate of three half per cent. per annum from the respective date or dates of payments by the University to be paid to the said University its successors in office for which payment I bind myself my heirs executors administrators representatives and assigns by these presents, sealed with my seal this fifth day of August one thousand nine hundred and nineteen.

WHEREAS by an Indenture of Trust bearing date the eighth day of October one thousand nine hundred and twelve and made between Taraknath Palit of the first part and said Taraknath Palit and others of the Second part and the said University of Calcutta of the third part it was interalia provided that the said University shall out of the Trust Estate set apart or realise and set apart a certain sum therein mentioned and apply the net income thereof in perpetuity in establishing and maintaining scholarship for advanced students in Science to enable them to carry on researches or investigation abroad that is to say outside India the number and value of such scholarships to be determined by the Governing Body mentioned in the Indenture of Trust dated the fifteenth day of June one thousand nine hundred and twelve (and made between the said Taraknath Palit thereinafter described as founder of the one part and the University of Calcutta thereinafter described as the University of the other part) the said scholarship being awarded upon the conditions mentioned in the said Indenture of Trust dated the eighth day of October one thousand nine hundred and twelve, namely :—

First.—That the recipients of the said Scholarships must be very distinguished graduates of the Calcutta University of either sex and must have taken the Degree of Master of Science or Doctor of Science or have been awarded the Prem Chand Roy Chand Scholarship.

Second—That such recipients must be unmarried and must continue so during the period they hold such scholarship and if they contravene this condition they shall forfeit

The University of Calcutta & Acharya P.C.Ray 1906-1944

their scholarship as well as refund the whole of the amount of the pecuniary benefit they shall have received in respect of their scholarships with interest at the rate of not more than six per cent per annum.

Third.—Before proceeding abroad such recipients must insure their lives in favour of the Calcutta University for such amount and in such manner as the said Governing Body may determine and the premium in respect of such insurance shall be payable by the recipients out of the amount of scholarships so awarded to them.

Fourth.—The said recipients shall not during the period they may hold the said scholarships enrol themselves as members of any of the Inns of Court or attempt to qualify themselves for any of the branches of the legal profession and if such recipients contravene this condition they shall forfeit their scholarships as well as refund the whole of the pecuniary benefit thereunder as aforesaid with interest at the rate of six per cent. per annum.

Fifth.—No one shall be eligible for the above scholarships whose knowledge of the language of the country in which his or her researches or investigations have to be prosecuted is not such as to enable him or her to intelligently prosecute such researches or investigations in that country.

Sixth.—The period during which such scholarships shall be tenable shall be determined by the said Governing Body and it shall be competent to them to extend such a period if they deem such extension beneficial.

Seventh.—If the said Governing Body is satisfied that the recipients of any such scholarship is not diligently prosecuting his or her researches or investigations or is misbehaving himself or herself it shall be competent to the said Body to stop payment of his or her scholarships either temporarily or permanently as they think fit.

Eighth.—The right of nomination for any of the said scholarships shall be with the discretion of the said Governing Body.

Ninth.—The said Trustee University shall require each of the recipients of such scholarships before proceeding abroad to enter into a Bond with them to refund such sum as may be spent for him together with interest on the total amount spent at the rate not exceeding six per cent. per annum from the date or dates of expenditure within such time and on such conditions as the said Trustee University may think fit provided always that the said Trustee University

may in any case forbear enforcing such Bond as to any part or the whole of the money secured thereby as the said University may in their discretion think fit.

TENTH—Should the said Governing Body at any time be unable for want of suitable candidates or for any other reasons to apply the moneys alloted to such scholarships the said Trustee University shall accumulate the same for the purposes of such Scholarships thereafter and all moneys recovered under the Bonds aforesaid shall be applicable to the provision of such scholarships AND WHEREAS the said University has created such a scholarship of the value of Rupees Three thousand six hundred a year for three years, AND WHEREAS the said Governing Body has decided to give such scholarship to the said Jnanendra Chandra Ghosh who has been medically examined and has obtained a certificate that he is a fit person whose life can be insured to the extent of Rupees thirteen thousand and three hundred and WHEREAS the said Jnanendrachandra Ghosh has agreed to abide by the terms and conditions of the said Deed of Trust AND WHEREAS the said University has decided that the insurance on the life of the said Jnanendra Chandra Ghosh in its favour shall amount to Rupees thirteen thousand and three hundred AND WHEREAS the said Governing Body of the said Trusts has considered the application of the said Jnanendra Chandra Ghosh praying that as he has been serving the said University for the last four years and is expected to continue to work in the University after the completion of his studies abroad consideration be made for him as regards the manner in which the repayment of the money to be spent for him in respect of his scholarship aforesaid and the interest on such money AND WHEREAS the said Governing Body of the said Trusts has considered his case and resolved on the fifteenth day of July one thousand nine hundred and nineteen and confirmed by the Syndicate of the said Calcutta University on the eighteenth day of July one thousand nine hundred and nineteen that the interest at the rate of three half per cent. per annum be charged on the amount advanced to him be not enforced provided he continues in the service of the University College of Science and that the scholarship be not withheld so long as the report of their work is satisfactory. Now the condition of the above written Bond or obligation is such that in case the said Obligor during the whole period he holds such scholarship remains unmarried and insures his life with a respectable Insurance Company in the favour of the said University of Calcutta for the said sum of Rupees thirteen thousand and three hundred in such manner as the Governing Body may determine and pay the premium in respect of such

12

Insurance as and when the same shall fall due and become payable and does not during the whole of the period that he holds the said Scholarships enrol himself as a member of any of the Inns of Court or does not attempt to qualify himself for any of the branches of the legal professions and in case it does not appear to the said University that he the said Jnanendrachandra Ghosh was not diligently prosecuting his researches or investigations or was misbehaving himself and in case he sends or causes to be sent to the said University periodical satisfactory report as to his progress in studies investigations and researches as well as of his character under the hand of the Professor under whom he may be engaged in the University of London or in the University of Paris or in the Nobel Institute of Stockholm or such other University or seat of learning to which the said University may agree from time to time in writing and in case the said Obligor come back to and continue in the service of the University College of Science after his return from his studies abroad or (if the Obligor on his return from his studies abroad does not come back to and continue in such service) pays unto the University all sums as aforesaid together with interest on such sums as aforesaid for and on his account and the respective dates of such expenditure at the rate of three and half per cent. per annum then and in such case the above written Bond or obligation shall be null and void otherwise the same shall remain in full force and virtue.

Signed Sealed and delivered in the presence of
DWIJENDRANATH MITTER,
Solicitor, Calcutta.
Prabhatchandra Ghosh,
Articled Clerk to Hon'ble Sir Devaprasad Sarvadhicary, Kt. &c., Solicitor.

JNANENDRACHANDRA GHOSH.

The Registrar also read the following application which was submitted by Dr. Ghose, on the 18th December, 1918 and the forwarding letter by Sir P. C. Ray, dated 21st December, 1918 :—

"UNIVERSITY COLLEGE OF SCIENCE
92, UPPER CIRCULAR ROAD,
Calcutta, the 18th December, 1918.

To
THE REGISTRAR,
CALCUTTA UNIVERSITY.

SIR,

I have the honour to offer myself as a candidate for a Sir Tarakanath Palit Scholarship tenable in Europe.

The University of Calcutta & Acharya P.C.Ray 1906-1944

As regards my qualifications, I beg to state that after passing the M.Sc. Examination in the First Class I was awarded a Palit research scholarship and was appointed an assistant to the Palit Professor of Chemistry. I worked in that capacity from September, 1915 to June 1917, and was then appointed University Lecturer in Physical Chemistry.

I have been carrying on research work in physical chemistry for the last five years and have published several papers in the scientific journals of England and America. As there is no up to date physico-chemical Laboratory anywhere in India, I intend to gain a first hand knowledge of modern physico-chemical methods by carrying on research work in the well equipped laboratories of London and Paris, and, if possible in the famous laboratory of Arrhenius in Stockholm.

I, therefore, pray that a scholarship of Rs. 300 per month for a period of three years from May 1919 be awarded to me, with passage money both ways.

I beg to add that I am unmarried and am ready to abide by the conditions that the University authorities may think necessary.

I shall be much obliged by your kindly putting up this application before the Governing Body of the Palit Trust, for consideration, at an early date.

I have &c.,

JNANENDRACHANDRA GHOSH."

"UNIVERSITY COLLEGE OF SCIENCE,
92, UPPER CIRCULAR ROAD,
Calcutta, 21st December, 1918.

DEAR SIR,

I have much pleasure in forwarding the applications of Messrs. Jnanendrachandra Ghosh and Jnanendranath Mukerjee for Sir Taraknath Palit Scholarships.

The candidates desire to proceed to Europe to make a special study of physico-chemical research methods. The study of physical chemistry is still in its infancy in India, although it forms an important part of the Chemistry curriculum to-day. Apart from its theoretical importance, however, the growing application of physico-chemical methods in the arts and industries demands that some of our best graduates should be encouraged to study the subject under specialists in England and on the Continent. By their published researches

The University of Calcutta & Acharya P.C.Ray 1906-1944

the candidates have shown what they can do unaided, and I have every reason to believe that if they are selected they will fully justify their selection. In fact, no better candidates could be recommended for the purpose.

Yours truly,

P. C. RAY.

To

THE REGISTRAR,

CALCUTTA UNIVERSITY."

The Registrar also read the following letter addressed by Dr. Ghose to the President, Council of Post Graduate Teaching in Science on the 18th July 1919, and the Resolution thereon by the Executive Committee of the Council of Post Graduate Teaching in Science, dated the 9th August 1919, subsequently confirmed by the Council on the 16th August 1919, and by the Senate on 23rd August 1919 :—

"COLLEGE OF SCIENCE,

Calcutta, the 18th July, 1919.

To

THE PRESIDENT,

COUNCIL OF POST-GRADUATE TEACHING IN SCIENCE.

Sir,

I have the honour to inform you that I have been awarded a Sir Taraknath Palit foreign Scholarship of Rs. 300 per month for a period of three years. I accordingly intend to proceed to England towards the end of August this year. The scholarship that has been granted me will just suffice for my expenses abroad, and I require in addition, at least half the pay I get as University Lecturer for the maintenance of my family. I have served in the University for the last four years and I pray that you will be kind enough to grant me leave on half pay during the period of my stay in Europe. I beg to add that in the bond I have to sign in favour of the University, it has been stipulated that the sum of money that is being advanced to me, will have to be repaid in case I fail to serve the University after my return from Europe.

I have &c.,

JNANENDRACHANDRA GHOSH"

"Read applications from Dr. Jnanendrachandra Ghosh and Babu Jnanendranath Mookerjee, University Lecturers in

Chemistry, for leave on half pay during the period of their stay in Europe as Sir T. N. Palit Research Scholars.

RESOLVED—

That leave be granted to Dr. Jnanendrachandra Ghosh and Babu Jnanendranath Mookerjee on a monthly allowance of Rs. 100 each, on condition that they continue to serve the University for three years after return, or refund the allowance paid."

RESOLVED—

That the Governing Body recommend to the Syndicate that a letter be addressed to the Vice-Chancellor of the Dacca University on the subject of the appointment of Dr. Ghosh as University Professor at Dacca, emphasising the following among other points :—

(1) That Dr. Ghosh has obtained from the University a Palit Foreign Scholarship for a period of three years on the terms set out in the bond.

(2) That before the expiry of the period of his scholarship (September, 1919 to August, 1922) Dr. Ghosh appears to have accepted an appointment in the Dacca University.

(3) That Dr. Ghosh as University Lecturer has obtained leave from the University on a monthly allowance of Rs. 100 on condition that he will continue to serve the University for three years after return or refund the allowance paid.

(4) That no application has so far been received by the University from Dr. Ghosh or from any one else on his behalf for leave to give up his scholarship or to resign his appointment as University Lecturer or to accept an appointment elsewhere.

(5) That apart from questions of pecuniary recoupment by enforcement of the terms of the bond, dated the 5th August, 1919 and the resolution dated the 9th August, 1919, the Governing Body consider it undesirable in the highest degree that a University Teacher who has been awarded a special scholarship for a fixed term so as to enable him to acquire special qualification should receive facilities from another University and break his engagement with this University.

RESOLVED—

That an extract from these proceedings together with a copy of the letter addressed to the Vice-Chancellor of the

Dacca University be forwarded for information to His Excellency the Chancellor and also to the Secretary to the Government of Bengal in the Education Department.

Read a letter from Mr. Krishnadas Bagchi, Sir Tarakanath Palit Scholar, stating that owing to the fall in the exchange the scholarship that is remitted to him, is not sufficient to cover his expenses in London, including the cost of materials he has to purchase for his research work, and requesting that an allowance of £ 22 per month may be remitted to him.

RESOLVED—

That the sum payable to Mr. Bagchi be increased by Rs. 300 per quarter with effect from the current quarter and that the matter be brought up for consideration when the total sum paid on his account reaches Rs. 18 000 (the amount secured by the bond dated 13th May, 1920).

The Registrar placed before the meeting a bill for Rs. 3,490-9-0 from Messrs. Sircar and Nephew for constructing boundary walls at 35, Ballygunge Circular Road.

Note.—An estimate for Rs. 3,001 for the work was accepted by the Governing Body (vide item No. 41 of Syndicate, dated the 18th March, 1921). The excess is due to constructing an additional wall for about 70 feet which was not included in the original estimate. The bill has been checked by Mr. S. N. Bal. Rs. 2,000 has been paid *on account*.

RESOLVED—

That the bill be paid."

RESOLVED—

That the Proceedings be confirmed.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

J. C. GHOSH, *Registrar.*

EXTRACT FROM THE PROCEEDINGS OF THE GOVERNING BODY OF THE SIR T. N. PALIT TRUSTS.

THE 16TH APRIL, 1921.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc. Ph.D., *President, in the Chair.*

Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Professor J. R. Banerjea, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.
Professor C. V. Raman, M.A.

* * * * * * *

The Registrar stated that from an answer given by the Hon'ble the Minister in charge of Education to starred question No. XVIII at the meeting of the Bengal Legislative Council held on the 1st April, 1921, it had transpired that Dr. Jnanendrachandra Ghosh, who had obtained a Palit Foreign Scholarship by executing a bond on the 5th August, 1919, had been appointed Professor of Chemistry in the University of Dacca.

The bond is as follows :—

Stamp Rs. 67-8-0.

KNOW ALL MEN by these presents that I Jnanendra chandra Ghosh son of Ramchandra Ghose residing at 24-1 Madan Mitter Lane in the town of Calcutta by caste Hindu Kayastha by occupation Lecturer, University of Calcutta, hereinbefore called the "obligor" and held and bound unto the University of Calcutta a body politic and corporate incorporated by and under Act II of 1857 of the Governor General in India in Council its successors in office in the aggregate sum of Rupees thirteen thousand three hundred that may be from time to time pent for me the obligor by the said University in terms of the Deed of Trust dated the 8th day of October, 1912, hereinafter recited in respect of the Scholarship in the said Deed of Trust mentioned together with interest on the total sum so spent at the rate of three half per cent. per annum from the respective date or dates of payments by the University to be paid to the said University its successors in office for which payment I bind myself my heirs executors administrators representatives and assigns by these presents, sealed with my seal this fifth day of August one thousand nine hundred and nineteen.

The University of Calcutta & Acharya P.C.Ray 1906-1944

WHEREAS by an Indenture of Trust bearing date the eighth day of October one thousand nine hundred and twelve and made between Taraknath Palit of the first part and said Taraknath Palit and others of the Second part and the said University of Calcutta of the third part it was interalia provided that the said University shall out of the Trust Estate set apart or realise and set apart a certain sum therein mentioned and apply the net income thereof in perpetuity in establishing and maintaining scholarship for advanced students in Science to enable them to carry on researches or investigation abroad that is to say outside India the number and value of such scholarships to be determined by the Governing Body mentioned in the Indenture of Trust dated the fifteenth day of June one thousand nine hundred and twelve (and made between the said Taraknath Palit thereinafter described as founder of the one part and the University of Calcutta thereinafter described as the University of the other part) the said scholarship being awarded upon the conditions mentioned in the said Indenture of Trust dated the eighth day of October one thousand nine hundred and twelve, namely :—

First.—That the recipients of the said Scholarships must be very distinguished graduates of the Calcutta University of either sex and must have taken the Degree of Master of Science or Doctor of Science or have been awarded the Prem Chand Roy Chand Scholarship.

Second—That such recipients must be unmarried and must continue so during the period they hold such scholarship and if they contravene this condition they shall forfeit their scholarship as well as refund the whole of the amount of the pecuniary benefit they shall have received in respect of their scholarships with interest at the rate of not more than six per cent per annum.

Third.—Before proceeding abroad such recipients must insure their lives in favour of the Calcutta University for such amount and in such manner as the said Governing Body may determine and the premium in respect of such insurance shall be payable by the recipients out of the amount of scholarships so awarded to them.

Fourth.—The said recipients shall not during the period they may hold the said scholarships enrol themselves as members of any of the Inns of Court or attempt to qualify themselves for any of the branches of the legal profession and if such recipients contravene this condition they shall forfeit their scholarships as well as refund the whole of the

The University of Calcutta & Acharya P.C.Ray 1906-1944

pecuniary benefit thereunder as aforesaid with interest at the rate of six per cent. per annum.

Fifth.—No one shall be eligible for the above scholarships whose knowledge of the language of the country in which his or her researches or investigations have to be prosecuted is not such as to enable him or her to intelligently prosecute such researches or investigations in that country.

Sixth.—The period during which such scholarships shall be tenable shall be determined by the said Governing Body and it shall be competent to them to extend such a period if they deem such extension beneficial.

Seventh.—If the said Governing Body is satisfied that the recipients of any such scholarship is not diligently prosecuting his or her researches or investigations or is misbehaving himself or herself it shall be competent to the said Body to stop payment of his or her scholarships either temporarily or permanently as they think fit.

Eighth.—The right of nomination for any of the said scholarships shall be with the discretion of the said Governing Body.

Ninth.—The said Trustee University shall require each of the recipients of such scholarships before proceeding abroad to enter into a Bond with them to refund such sum as may be spent for him, together with interest on the total amount spent at the rate not exceeding six per cent. per annum from the date or dates of expenditure within such time and on such conditions as the said Trustee University may think fit provided always that the said Trustee University may in any case forbear enforcing such Bond as to any part or the whole of the money secured thereby as the said University may in their discretion think fit.

TENTH—Should the said Governing Body at any time be unable for want of suitable candidates or for any other reasons to apply the moneys alloted to such scholarships the said Trustee University shall accumulate the same for the purposes of such Scholarships thereafter and all moneys recovered under the Bonds aforesaid shall be applicable to the provision of such scholarships AND WHEREAS the said University has created such a scholarship of the value of Rupees Three thousand six hundred a year for three years, AND WHEREAS the said Governing Body has decided to give such scholarship to the said Jnanendra Chandra Ghosh who has been medically examined and has obtained a certificate that he is a fit person whose life can be insured to the extent of Rupees thirteen thousand nine

three hundred and WHEREAS the said Jnanendrachandra Ghosh has agreed to abide by the terms and conditions of the said Deed of Trust AND WHEREAS the said University has decided that the insurance on the life of the said Jnanendra Chandra Ghosh in its favour shall amount to Rupees thirteen thousand and three hundred AND WHEREAS the said Governing Body of the said Trusts has considered the application of the said Jnanendra Chandra Ghosh praying that as he has been serving the said University for the last four years and is expected to continue to work in the University after the completion of his studies abroad consideration be made for him as regards the manner in which the repayment of the money to be spent for him in respect of his scholarship aforesaid and the interest on such money AND WHEREAS the said Governing Body of the said Trusts has considered his case and resolved on the fifteenth day of July one thousand nine hundred and nineteen and confirmed by the Syndicate of the said Calcutta University on the eighteenth day of July one thousand nine hundred and nineteen that the interest at the rate of three han per cent. per annum be charged on the amount advanced to him be not enforced provided he continues in the service of the University College of Science and that the scholarship be not withheld so long as the report of their work is satisfactory. Now the condition of the above written Bond or obligation is such that in case the said Obligor during the whole period he holds such scholarship remains unmarried and insures his life with a respectable Insurance Company in the favour of the said University of Calcutta for the said sum of Rupees thirteen thousand and three hundred in such manner as the Governing Body may determine and pay the premiums in respect of such Insurance as and when the same shall fall due and become payable and does not during the whole of the period that he holds the said Scholarships enrol himself as a member of any of the Inns of Court or does not attempt to qualify himself for any of the branches of the legal professions and in case it does not appear to the said University that he the said Jnanendrachandra Ghosh was not diligently prosecuting his researches or investigations or was misbehaving himself and in case he sends or causes to be sent to the said University periodical satisfactory report as to his progress in studies investigations and researches as well as of his character under the hand of the Professor under whom he may be engaged in the University of London or in the University of Paris or in the Nobel Institute of Stockholm or such other University or seat of learning to which the said University may agree from time to time in writing and in case the said Obligor come back to and continue in the service of the

University College of Science after his return from his studies abroad or (if the Obligor on his return from his studies abroad does not come back to and continue in such service) pays unto the University all sums as aforesaid together with interest on such sums as aforesaid for and on his account and the respective dates of such expenditure at the rate of three and half per cent. per annum then and in such case the above written Bond or obligation shall be null and void otherwise the same shall remain in full force and virtue.

Signed Sealed and delivered in the presence of
DWIJENDRANATH MITTER,
Solicitor, Calcutta.
Prabhatchandra Ghosh,
Articled Clerk to Hon'ble Sir Devaprosad Sarvadhicary, Kt. &c., Solicitor.

JNANENDRACHANDRA GHOSH.

The Registrar also read the following application which was submitted by Dr. Ghose, on the 18th December, 1918 and the forwarding letter by Sir P. C. Ray, dated 21st December, 1918 :—

"UNIVERSITY COLLEGE OF SCIENCE
92, UPPER CIRCULAR ROAD,
Calcutta, the 18th December, 1918.

To
THE REGISTRAR,
CALCUTTA UNIVERSITY.

SIR,

I have the honour to offer myself as a candidate for a Sir Taraknath Palit Scholarship tenable in Europe.

As regards my qualifications, I beg to state that after passing the M.Sc. Examination in the First Class I was awarded a Palit research scholarship and was appointed an assistant to the Palit Professor of Chemistry. I worked in that capacity from September, 1915 to June 1917, and was then appointed University Lecturer in Physical Chemistry.

I have been carrying on research work in physical chemistry for the last five years and have published several papers in the scientific journals of England and America. As there is no up to date physico-chemical Laboratory anywhere in India, I intend to gain a first hand knowledge of modern physico-chemical methods by carrying on research work in the well equipped laboratories of London and Paris, and, if possible in the famous laboratory of Arrhenius in Stockholm.

I, therefore, pray that a scholarship of Rs. 300 per month for a period of three years from May 1919 be awarded to me, with passage money both ways.

I beg to add that I am unmarried and am ready to abide by the conditions that the University authorities may think necessary.

I shall be much obliged by your kindly putting up this application before the Governing Body of the Palit Trust, for consideration, at an early date.

I have &c.,

JNANENDRACHANDRA GHOSH."

"UNIVERSITY COLLEGE OF SCIENCE,

92, UPPER CIRCULAR ROAD,

Calcutta, 21st December, 1918.

DEAR SIR,

I have much pleasure in forwarding the applications of Messrs. Jnanendrachandra Ghosh and Jnanendranath Mukerjee for Sir Taraknath Palit Scholarships.

The candidates desire to proceed to Europe to make a special study of physico-chemical research methods. The study of physical chemistry is still in its infancy in India, although it forms an important part of the Chemistry curriculum to-day. Apart from its theoretical importance, however, the growing application of physico-chemical methods in the arts and industries demands that some of our best graduates should be encouraged to study the subject under specialists in England and on the Continent. By their published researches the candidates have shown what they can do unaided, and I have every reason to believe that if they are selected they will fully justify their selection. In fact, no better candidates could be recommended for the purpose.

Yours truly,

P. C. RAY.

To

THE REGISTRAR,

CALCUTTA UNIVERSITY."

The Registrar also read the following letter addressed by Dr. Ghosh to the President, Council of Post Graduate Teaching in Science on the 18th July 1919, and the Resolution thereon by the Executive Committee of the Council of Post Graduate Teaching in Science, dated the 9th August 1919, subsequently

confirmed by the Council on the 16th August 1919, and by the Senate on 23rd August 1919 :—

"COLLEGE OF SCIENCE,
Calcutta, the 18th July, 1919.

To
THE PRESIDENT,
COUNCIL OF POST-GRADUATE TEACHING IN SCIENCE.

Sir,

I have the honour to inform you that I have been awarded a Sir Taraknath Palit foreign Scholarship of Rs. 300 per month for a period of three years. I accordingly intend to proceed to England towards the end of August this year. The scholarship that has been granted me will just suffice for my expenses abroad, and I require in addition, at least half the pay I get as University Lecturer for the maintenance of my family. I have served in the University for the last four years and I pray that you will be kind enough to grant me leave on half pay during the period of my stay in Europe. I beg to add that in the bond I have to sign in favour of the University, it has been stipulated that the sum of money that is being advanced to me, will have to be repaid in case I fail to serve the University after my return from Europe.

I have &c.,
JNANENDRACHANDRA GHOSH"

"Read applications from Dr. Jnanendrachandra Ghosh and Babu Jnanendranath Mookerjee, University Lecturers in Chemistry, for leave on half pay during the period of their stay in Europe as Sir T. N. Palit Research Scholars.

RESOLVED—

That leave be granted to Dr. Jnanendrachandra Ghosh and Babu Jnanendranath Mookerjee on a monthly allowance of Rs. 100 each, on condition that they continue to serve the University for three years after return, or refund the allowance paid."

RESOLVED—

That the Governing Body recommend to the Syndicate that a letter be addressed to the Vice-Chancellor of the Dacca University on the subject of the appointment of Dr. Ghosh as University Professor at Dacca, emphasising the following among other points :—

(1) That Dr. Ghosh has obtained from the University a Palit Foreign Scholarship for a period of three years on the terms set out in the bond.

17

(2) That before the expiry of the period of his scholarship (September, 1919 to August, 1922) Dr. Ghosh appears to have accepted an appointment in the Dacca University.

(3) That Dr. Ghosh as University Lecturer has obtained leave from the University on a monthly allowance of Rs. 100 on condition that he will continue to serve the University for three years after return or refund the allowance paid.

(4) That no application has so far been received by the University from Dr. Ghosh or from any one else on his behalf for leave to give up his scholarship or to resign his appointment as University Lecturer or to accept an appointment elsewhere.

(5) That apart from questions of pecuniary recoupment by enforcement of the terms of the bond, dated the 5th August, 1919 and the resolution dated the 9th August, 1919, the Governing Body consider it undesirable in the highest degree that a University Teacher who has been awarded a special scholarship for a fixed term so as to enable him to acquire special qualification should receive facilities from another University and break his engagement with this University.

RESOLVED—

That an extract from these proceedings together with a copy of the letter addressed to the Vice-Chancellor of the Dacca University be forwarded for information to His Excellency the Chancellor and also to the Secretary to the Government of Bengal in the Education Department.

* * * * * *

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

J. C. GHOSH, *Registrar.*

RESOLVED—

That the action taken be approved.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

J. C. GHOSH, *Registrar.*

RESOLVED—

That the name of Jogeschandra Sarkar be removed from the list of successful candidates at the last Final B.L. Examination and he be informed that he must appear and pass in both the Intermediate and Final Law Examinations in accordance with Section 14 of Chapter XLI of the Regulations.

41. Read a letter from Mr. Asutosh Chatterjee, M.A., Professor, Cotton College, Gauhati, suggesting that the first ten names in order of merit in the Matriculation and the B.A. Distinction results should be published separately.

ORDERED—

That Mr. Asutosh Chatterjee, M.A., be informed that his suggestions cannot be accepted.

42. RESOLVED—

That on the results of the Final and the Intermediate Examinations in Law, held in January, 1921, the Ritchie Prize and the Parbaticharan Ray Medal be awarded respectively to Atulchandra Mitra and Amulyadhan Mukhopadhyay of the Univesity Law College.

43. Read the following letters from Dr. J. C. Ghosh—

"BERLIN,

The 16th April, 1921.

To

THE PRESIDENT, COUNCIL OF POST-GRADUATE TEACHING IN SCIENCE, UNIVERSITY OF CALCUTTA.

SIR,

I have the honour to inform you that I have been appointed Professor of General and Physical Chemistry in the University of Dacca.

I accordingly beg leave to resign my appointment as Lecturer in Physical Chemistry in the University of Calcutta from the 1st of May, 1921.

I have etc., etc.,

J. C. GHOSH."

"BERLIN,

The 16th April, 1921.

To

THE REGISTRAR,

UNIVERSITY OF CALCUTTA.

SIR,

I beg to inform you that I have been appointed Professor of Physical Chemistry in the University of Dacca. I intend to sail for India on the 7th of May, and I would accordingly request you to discontinue sending my foreign scholarships as Sir Tarakanath Palit Student in future

I have etc., etc.,

J. C. GHOSH."

RESOLVED—

1. That copies of the letter addressed to the Vice-Chancellor of the Dacca University, dated the 20th April, 1921 and of the letter addressed to the Registrar of the Dacca University, dated the 10th May, 1921, be furnished to Dr. Ghosh on his return to Calcutta in order to enable him to make such observations thereon as he may wish.

2. That meanwhile the resignations contained in the t.. letters, dated the 16th April, 1921, be not accepted.

RESOLVED ALSO—

That copies of the two letters together with a copy of the above resolution be forwarded to the Registrar, Dacca University, and the D.P.I., Bengal, with the intimation that the Syndicate on the materials now before them do not consider the letters satisfactory and that a further communication will be forwarded on receipt of a communication from Dr. Ghosh.

44. Read an inspection report from Professor S. C. Mahalanobis, B.Sc., F.R.S.E., on the Loreto House, Calcutta, recommending an extension of its affiliation in Botany up to the B.A. standard.

RESOLVED—

That the Syndicate recommend to the Senate that in extension of the affiliation already granted, the Loreto House, Calcutta, be affiliated in Botany to the B.A. pass standard with effect from the commencement of the session 1921-22.

45. Read the following Inspection report on the Victoria College, Cooch-Behar, for 1919-20.

RESOLVED—

That payments be made as shown in the statement.

8. The Registrar placed before the Syndicate a bill, forwarded by the Controller of Examinations, from the Principal, Sanskrit College, for remuneration to invigilators and other contingent expenses incurred during the Matriculation Examination, 1921, at the Sanskrit College Centre.

ORDERED—

That the bill be paid.

7. Read a letter from Messrs. Wilson and Ray, submitting an estimate amounting to Rs. 83-8-0 for repairing two fans, one of the PressPaper Godown and the other of the Record Room.

RESOLVED—

That the estimate be accepted.

8. Read a letter from Dr. A. A. Macdonell, M.A., Ph.D., LL.D., who has been appointed Stephanos Nirmalendu Ghosh Lecturer, asking to convey his thanks to the Senate for the appointment and intimating that he proposes to arrive in Calcutta not later than Monday, the 19th December, 1921, and to deliver two lectures in the same week and in each of the following three weeks.

ORDERED—

That the matter be notified in the Gazette in due course.

9. Read a letter from Mr. Jnanendranath Mukherje, Sir T. N. Palit Foreign Scholar, reporting that he is continuing to work in the laboratories of Professor F. G. Donnan, C.B.E., F.R.S., of the University of London.

RESOLVED—

That the letter be recorded and that the scholarship be continued to be paid to Mr. Jnanendranath Mukherjee.

10. The Registrar placed before the Syndicate an application from Dr. Syamadas Mookerjee, M.A., Ph.D., Lecturer, Calcutta University, addressed to the Secretary to the Government of Bengal, Department of Education, on the subject of his re-employment in the University on his retirement from the Government service and of his drawing full amount of pension in addition to the full amount of pay of the post he is holding in the University.

ORDERED—

That the application be forwarded to the Government of Bengal with the recommendation that the prayer be granted.

The University of Calcutta & Acharya P.C.Ray 1906-1944

(3) That the following members of the Post-Graduate Department be also asked to join the committee and to act as Honorary Joint Secretaries.

Dr. Girindrasekhar Basu, D.Sc., M.B.
Dr. Anathnath Chatterjee, M.B., B.S.

10. Read endorsements from Dr. H. K. Sen, *Ghose Professor of Applied Chemistry*, forwarding for payment, the following bills for goods supplied to the Applied Chemistry Department :—

		Rs.	A.	P.
(1)	Mr. B. N. Mukerjee	46	0	0
(2)	Messrs. N. & N. Ghosh	148	0	9
(3)	The Clyde Engineering Co ...	65	4	0

ORDERED—

That the bills be paid.

11. Read a letter from the Deputy Secretary to the Government of Bengal, Education Department, Education Branch, conveying sanction to the re-employment of Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., as Sir Tarakuath Palit Professor of Chemistry as also to his drawing full pension in addition to the full pay of the post which is held by him under the University.

ORDERED,—

(1) To be recorded.

(2) That Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., be informed accordingly.

12. Read a letter from the Deputy Secretary to the Government of India, Department of Industries, intimating that the Government of India approve of the nomination of Sir Nilratan Sircar, Kt., as a member of the Governing Body of the School of Mining and Geology at Dhanbad.

ORDERED—

To be recorded.

13. Read a letter from Mr. Kallyanauth Mitter, C.I.E., solicitor, forwarding for information and instruction a copy of the letter from the Offg. solicitor to the Government of Bengal regarding the case of the University *versus* Secretary of state, in which it has been requested to confirm the acceptance by the University of the undertaking and conditions mentioned in the letter of the Secretary to the Government of Bengal to the Registrar of the University No. 946 Edn. dated 25th April 1921, and of withdrawal of the suit, each party paying its own costs and

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the changes sanctioned be notified in the Gazette.

4. Read a letter from the Deputy Secretary to the Government of Bengal, Education Department, conveying sanction of the Government of Bengal (Ministry of Education) to the proposed changes in Chapters XXXI (I.A. Examination), XXXII (B.A. Examination) and XXXIII (M.A. Examination). (Regarding modification in the list of books and the syllabuses in Arabic and Persian by the Board of Studies concerned).

ORDERED—

1. That the changes sanctioned be notified in the Gazette.

2. That the Board of Studies in Arabic, Persian and Urdu be requested to revise the Syllabus and Text-books in Arabic and Persian for the I.A. and B.A. Examinations in the light of the changes sanctioned by the Government.

3. That a copy of the letter be forwarded to the Secretary, Council of Post-Graduate Teaching in Arts, for information and necessary action.

5. Read a letter from the Hon'ble the Chief Justice of Bengal, nominating the following Judges of the High Court to act on the Governing Body of the University Law College for the year 1921-22 :—

1. The Hon'ble Mr. Justice Chatterjee.
2. The Hon'ble Mr. Justice Walmesley.
3. The Hon'ble Mr. Justice Greaves.

ORDERED—

To be recorded.

6. Read a letter from Dr. J. C. Ghosh on the subject of his resignation as Lecturer of this University and his appointment in the Dacca University.

Read also a letter from the Registrar, Dacca University, forwarding a copy of a letter from Sir P. C. Roy, to the Vice-Chancellor of the Dacca University.

RESOLVED—

That the letters be placed before the Governing Body of the Sir Tarakmath Palit Trusts.

7. The Registrar placed before the Syndicate a bill for for Rs. 69-8 from Messrs. Kantychunder Ghose & Co., for supplying one teak-wood platform and one teak-wood ladder to the Library.

NOTE—The estimate for the articles was accepted by the Syndicate on the 18th March, 1921 (vide item No. 7).

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the bill be paid.

8. Read a letter from Babu Jatindranath Biswas, requesting that the *Rashbehari Biswas* Scholarship may be awarded for the first time on the results of the last Matriculation Examination.

NOTE—His offer of 3½ percent G.P. Notes for Rs. 4,800 for founding the above Scholarship was accepted by the Syndicate on the 27th May, 1921 (Vide item No. 49). The G. P. Notes have since been received from him.

RESOLVED—

That the scholarship be awarded for the first time on the results of the last Matriculation Examination.

9. Read a letter from the Professor-in-Charge, Carmichael College, Rangpur, forwarding a copy of a letter No. 251-c, dated the 12th May, 1921, addressed to the Commissioner of the Rajshahi Division by the President of the College for appointment of a very small committee of enquiry into the affairs of the College, and complaining against a resolution of the College General Committee, alleged to have been passed in an irregular way at the Annual General Meeting of the College on 10th May, 1921, reversing the decision of the College Governing Body regarding the removal of Professor Birendrachandra Mookerjee from his post with effect from 4th June, 1921.

A copy of the Memorandum of Association and rules and regulations of the College, and extracts from the Minutes of the Governing Body Meeting dated 3rd May, 1921, as also of the Annual General Meeting, dated 10th May, 1921, have been forwarded.

Also a letter from the President, Carmichael College, Rangpore, informing, in reference to this Office letter No. 1899-C, dated the 14th May, 1921, with which a copy of an application from Professor Birendrachandra Mukherjee was forwarded for observations of the Governing Body of the College that this Office letter referred to, will be placed before the next meeting of the Governing Body, and stating, as his private opinion, that the affairs of the College will never run smoothly as long as Professor Birendrachandra Mukherjee remains on the staff.

Also a telegram from the Deputy Collector-in-Charge, Rangpore, requesting that Professor Birendrachandra Mukherjee's case may be postponed to a later date as the President of the College Governing Body is away on casual leave.

Also a telegram from the President, Carmichael College, Rangpore, requesting that the Hon'ble the Vice-Chancellor and Syndicate may be pleased to defer consideration of the appeal from Mr. Birendrachandra Mookerjee awaiting the decision of the Governing Body of the College which is anticipated to meet within a week to express its formal observations on the case and stating that the real opinion of the Governing Body is sufficiently indicated in the Minutes already placed before them.

Also a letter from the President of the Governing Body of the Carmichael College, Rangpur, furnishing their observations, in reply to this Office letter No. 1899-C, dated the 14th May, 1921, on the subject of removal of Babu Birendrachandra Mookerjee, M.A., a Professor of Philosophy in the college.

Also a note of dissent by Babu Radharaman Majumdar, a member of the Governing Body of the College, on the same.

RESOLVED—

That Mr. W. W. Hornell, C.I.E., M.A., M.L.C., Dr. H. C. Mookerjee, M.A., Ph.D., and Mr. J. R. Banerjea, M.A., B.L., be requested to inspect the college at once and to favour the Syndicate with a report on its present condition with special reference to the matter disclosed in the correspondence which has been laid before the Syndicate.

10. Read the following Inspection Report on the Earle Law College Gauhati for 1920-21.

University of Calcutta

MINUTES

FOR THE YEAR

1921

PART III

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

Minutes of the Syndicate

FOR THE YEAR 1921.

No. 31.

THE 1ST JULY, 1921.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Vice-Chancellor, in the Chair.

Mr. W. W. Hornell, C.I.E., M.A., M.L.C.
Mr. B. Heaton, M.I.E. (Ind.).
Prof. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. R. Banerjea, M.A., B.L.
Mr. Birajmohan Majumdar, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Mr. Manmathanath Ray, M.A., B.L.
Prof. D. R. Bhandarkar, M.A.
Mr. Pramathanath Banerjee, M.A., B.L.
Aga Md. Kazim Shirazi.
Mr. Ramaprasad Mookerjee, M.A., B.L.

1. The Minutes of the Syndicate, dated the 24th and the 29th June, 1921, were read and confirmed.

2. Read the following Minutes of the Faculty of Law, dated the 27th June, 1921 :—

Read the following :—

REPORT.

"The Committee appointed by the Faculty of Law to report on the Synopses and Introductory Lectures submitted by the candidates for the Tagore Law Professorship in 1923, beg to report that, in their opinion, the syllabus submitted by Professor James Wilford Garner, M.A., Ph.D., author of "Inter-

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1921.

No. 33.

THE 15TH JULY, 1921.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Mr. B. Heaton, M.I.E. (Ind.)
Prof. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. Birajmohan Majumdar, M.A., B.L.
Rev. Dr. J. Watt, M.A., D.D.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Mr. Manmathanath Ray, M.A., B.L.
Prof. D. P. Bhandarkar, M.A.
Mr. Pramathanath Banerjee, M.A., B.L.
Aga Md. Kasim Shirazi.
Mr. Ramaprasad Mookerjee, M.A., B.L.

1. The Minutes of the Syndicate, dated the 8th July, 1921, were read and confirmed.

2. Read the following Minutes of the Faculty of Medicine, dated the 8th July, 1921:—

"Rai Chunilal Bose, Bahadur, was voted to the Chair.

The Faculty proceeded to elect the Dean of the Faculty for the remainder of the current year in place of Lt. Col. B. H. Deare, M.R.C.P., I.M.S., resigned.

On the motion of Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S., seconded by Dr. Kedarnath Das, C.I.E., M.D., Bt. Lt.-Col. F. A. F. Bernardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S., was unanimously elected Dean of the Faculty for the remainder of the current year in place of Lt.-Col. B. H. Deare, resigned.

The Faculty next proceeded to consider, at the request of the Syndicate, the following letter from the Government of India, Department of Education, No. 391, dated the 11th March, 1921, regarding the proposed changes in the Regulations about the Examination for the Diploma in Public Health

ORDERED—

That a copy of the report be forwarded to the authorities of the College for information and necessary action.

19. Read a letter from the Principal, Daulatpur Hindu Academy, stating that conside able extension and changes of the recognised Hindu Hostel have been effected of late and requesting that a fresh recognition to the hostel may accordingly be granted.

ORDERED—

That a copy of the letter be forwarded to the University Inspector of Colleges for favour of a report.

20. Read a letter from the Offg. Principal, Hughli College, reporting that Maulavi Muhammad Irfan, M.A., has been appointed Professor of Persian of the aforesaid College in place of Maulvi Muhammed Sanaullah, transferred.

ORDERED—

To be recorded.

21. Read applications, forwarded by the Principal, University Law College, from *Mohinimohan Ray and Rabindranath Sangal*, students in the First-year Class of the College during the session 1920-21, whose p. c. of attendance at lectures in Roman Law fell short of the prescribed minimum owing to unavoidable circumstances, and who were provisionally admitted to the last Preliminary Law Examination as non-collegiate students by the Controller of Examinations, praying for sanction to the aforesaid admission to the examination.

RESOLVED—

That the Syndicate recommend to the Senate that the admission of the applicants to the recent Preliminary Examination in Law as non-collegiate students be sanctioned.

22. Read an application, forwarded by the Vice-Principal, University Law College and supported by a medical Certificate, from *Radhagyam Chatterjee*, a student in the First-year class of the College, whose attendance at lectures in Jurisprudence has fallen short of the prescribed minimum, praying for condonation of the deficiency so as to enable him to proceed to the ensuing Supplementary Preliminary Law Examination as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the supplementry Preliminary Examination in Law, July, 1921, as a non-collegiate student.

The University of Calcutta & Acharya P.C.Ray 1906-1944

23. Read an application forwarded by the Principal, Edward College, Pabna, from Keamuddin Ahmad, a student in the 1st-year class of the aforesaid College having Arabic as one of his subjects, praying that, as his circumstances do not permit him to join any other College and as the Pabna College is not enjoying affiliation in Arabic, permission may be given to him to take up the subject for the I.A. Examination and to appear at the said examination in Arabic as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the I.A. Examination in Arabic as a non-collegiate student.

24. Read an application from Maung Ne Win, who was a student in the First-year I.Sc. Class of the Rangoon College up to December, 1920, and who discontinued attending the class subsequently, praying that he may be permitted to join the First-year Class of a College affiliated to this University this session.

RESOLVED—

That the application be granted.

25. Read an application, recommended by the Principal, Krishnagar College from Babu Girija Sankar Bhattacharyya, praying that his brother, *Dakshinjasankar Bhattacharyya*, who has passed the B Final Examination this year from the Rajshahi Collegiate School, may be permitted to join the First-year I.Sc. class and to appear at the Matriculation Examination to be held in 1922 in Sanskrit only with a view to qualifying himself for admission to the I.Sc. Examination of this University.

RESOLVED—

That Dakshinjasankar Bhattacharyya be permitted to join the 1st-year Class of the College subject to the condition that he must pass the Matriculation Examination in a classical language before appearing at the Intermediate Examination.

26. Read an application from *Nasiruddin Khan*, a Graduate of the Patna University, who has obtained the required migration certificate from his University, praying for permission to prosecute his Post-Graduate and Law studies in this University.

RESOLVED—

That the permission asked for be granted.

27. Read an application, forwarded by the Principal, University Law College, from B. S. Nanjundiah, a graduate of the

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1921.

No. 54.

THE 9TH DECEMBER, 1921.

PRESENT:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Mr. Herambachandra Maitra, M.A.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. E. Banerjea, M.A., B.L.
Mr. Birajmohan Majumdar, M.A., B.L.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Mr. Manmathanath Ray, M.A., B.L.
Prof. D. R. Bhandarkar, M.A.
Mr. Pramathanath Banerjee, M.A., B.L.
Mr. Ramaprasad Mookerjee, M.A., B.L.

1. The Minutes of the Syndicate dated the 10th and the 16th November and 5th December, 1921, were read and confirmed.

2. Read a letter from Dr. J. N. Mookerjee, D.Sc., Guruprasad Singh Professor of Physical Chemistry, submitting a list of requirements for the department of Physical Chemistry in the University College of Science.

RESOLVED—

That the letter be referred to the Governing Body of the University College of Science.

3. Read a report from Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., on the research work done by Dr. Jnanendranath Mookerjee, D.Sc., during his first year's term as a Premchand Roychand student.

RESOLVED—

That the report be accepted and that the scholarship be continued to be paid to Dr. Jnanendranath Mookerjee, D.Sc.

4. Read a report from Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., on the research work done by Dr. Jnanendrachandra Ghosh, D.Sc., during his third year's term as a Premchand Roychand Research Scholar.

RESOLVED—

That the report be accepted and that the balance of the scholarship be paid to Dr. Jnanendrachandra Ghosh, D.Sc.

5. Read a letter from Dr. M. N. Banerjee, C.I.E., B.A., M.R.C.S. (Eng.), reporting the result of the scrutiny of answer papers of Dhirendramohan Datta (Roll Cal. 45) who appeared at the Final M.B. Examination, Parts I and II, held in April, 1921.

RESOLVED—

That no alteration be made in the result of the candidates.

6. Read a report from the Controller of Examinations that the Hon'ble the Vice-Chancellor has appointed the following gentlemen as members of the Board of Examiners for the D. P. H. Examination to be held on the 9th January, 1922, and following days :—

Lt.-Col. B. H. Deare, C.I.E., M.B., D.P.H., M.R.C.P., I.M.S.
Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.
Mr. T. N. Majumdar, L.M.S., D.P.H.
Rai Gopalchandra Chatterjee, Bahadur, M.B.

ORDERED—

To be recorded.

7. RESOLVED—

That Lt.-Col. J. C. H. Leicester, I.M.S., be appointed a member of the Board of Examiners in Midwifery for the Final M.B. Examination held in November, 1921, in place of Major V. B. Green Armytage, who has left India.

8. Read a letter from the Accountant-General, Posts and Telegraphs, reporting that Babu Sudhindranath Das has been dismissed from service in his office because he personated falsely a candidate at the Examination Hall.

ORDERED—

To be recorded.

9. Read a memo. from the Offg. Director of Public Health, Bengal, forwarding an application from Dr. Mohinlal Deb, late I.M.S., praying that under the circumstances, he may be granted certain exemptions for admission to the D.P.H. Examination.

RESOLVED—

That Dr. Mohinlal Deb be allowed the exemptions prayed for.

10. Read the following inspection report on the Hooghly College, for 1917-18, 1918-19, 1919-20 and 1920-21.

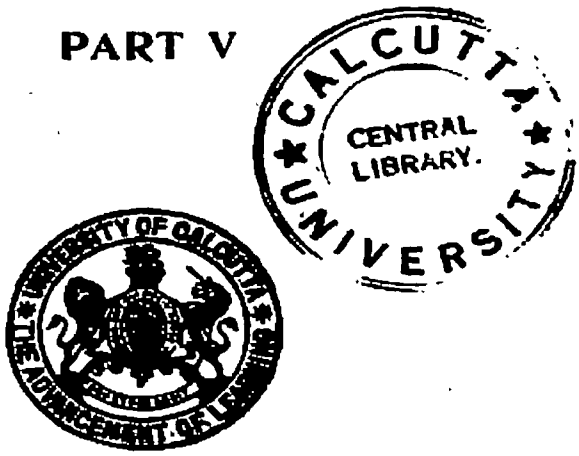
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1921

PART V



CALCUTTA UNIVERSITY PRESS

Report of the Syndicate
For the year 1921

1

Constitution of
Senate, Faculties, Syndicate, Boards of Studies and Board of Accounts.

THE SENATE.

CHANCELLOR.

His Excellency the Right Hon'ble Lawrence John Lumley Dundas, G.C.I.E., D.Litt., Earl of Ronaldshay.

VICE-CHANCELLOR.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.

Ex-officio Fellows.

His Excellency the Governor of Assam.
The Chief Justice of the High Court of Judicature at Fort William in Bengal.
The Lord Bishop of Calcutta and Metropolitan of India.
The Member of the Council of the Governor-General in charge of the Department of Education.
The Minister for Local Self-Government, Bengal.
The Minister for Education, Bengal.
The Minister for Agriculture and Industries, Bengal.
The Minister for Education, Assam.
The Director of Public Instruction, Bengal.
The Director of Public Instruction, Assam.

Ordinary Fellows.

* The Hon'ble Sir Rashbehary Ghose, Kt., C.S.I., C.I.E., M.A., D.L., Ph.D.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
Mahendranath Ray, Esq., C.I.E., M.A., B.L.

* Died during the year.

†Sir Kailaschandra Bose, Kt., C.I.E., O.B.E., L.M.S.
Sir Nilratan Sircar, Kt., M.A., M.D., D.C.L., LL.D.
Herambachandra Maitra, Esq., M.A.
Sir Devaprasad Sarvadhikary, *Suriratna, Vidyaratnakar*, Kt., C.I.E., M A, LL.D., M L.A.
*Lt.-Col. Sureshprasad Sarbadhikari, C.I.E., B.A., M.D., I.M.S.
Adharchandra Mookerjee, Esq., M.A., B.L.
†Rai Chunilal Bose, Bahadur, I.S.O., M.B., F.C.S.
Prof. H. Stephen, M.A., D.D., Ph.D.
B. Heaton, Esq., M.I.E. (Ind.)
†Kedarnath Das, Esq., C.I.E., M.D.
†Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Prof. C. E. Cullis, Ph.D., D.Sc.
Brajendranath Seal, Esq., M.A., Ph.D., D.Sc.
†G. C. Bose, Esq., M A., M.R.A.S.
†Sir Asutosh Chaudhuri, Kt., M.A., LL.B., M.L.C.
*J. N. Das Gupta, Esq., B.A. (Oxon.).
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
†Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., M.I.E. (Ind.)
†Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
The Hon'ble Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
Jnanchandra Ghosh, Esq., M.A.
$F. C. Turner, Esq., M.A.
Sir Rajendranath Mookerjee, K.C.I.E., M.I.E. (Ind.)
E. P. Harrison, Esq , Ph.D., F.R.S.E., F. Inst P.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
D. N. Mallik, Esq., B.A., Sc.D., F.R.S.E.
S. C. Bagchi, Esq., B.A., LL.B., LL D.
Shams-ul-Ulama Abu Nasr Muhammad Waheed, M.A.
Rai Bahadur Dineschandra Sen, B.A., D Litt.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
†G. Findlay Shirras, Esq., M.A., F.S S., F.E.S.
J. R. Banerjea, Esq., M.A., B.L.
†Birajmohan Majumdar, Esq., M.A., B.L.
†E. E. Biss, Esq.
†J. B. Barrow, Esq., M.A.
‡Rai Saheb Bidhubhushan Goswami, M.A.
†The Hon'ble Mr. Abdul Majid, B.A., LL.B., C.I.E.
†F. W. Südmersen, Esq., B.A.
Lt.-Col. B. H. Deare, C.I.E., D.P.H., M.R.C.P., I.M.S.
Jaminibhushan Ray, Esq., *Kabiratna*, M.A., M.B.
Rev. Father F. X. Crohan, S. J.
Prof. Hiralal Haldar, M.A., Ph.D.
Satischandra Ray, Esq., M.A.
Rev. J. Watt, M.A., D.D.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
T. S. Sterling, Esq., M.A.
T. H. Richardson, Esq., M A., B.A.I., M.I.C.E. (Ireland), M.I.E. (Ind.)
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Maulavi Muhammad Irfan, M.A.
†T. O. D. Dunn, Esq., M.A., D.Litt.
S. Khuda Buksh, Esq., M.A., B.C.L.
$W. E. Griffith, Esq., M.A.

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* Died during the year.
† Retired under Section 4, Clause (2), of the Indian Universities Act, but was re-appointed during the year, 1921.
‡ Fellowship ceased during the year.
$ Resigned.

Khan Bahadur Maulavi Ahsanullah, M.A., M.R.A.S.
Aga Md. Kazim Shirazi.
H. Suhrawardy, Esq., F.R.C.S.I., L.M., M.D., M.L.C.
E. F. Oaten, Esq., M.A., LL.B.
Rev. E. C. Dowick, M.A.
Asutosh Sastri, Esq., M.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rev. A. E. Brown, M.A., B.Sc.
Egerton Smith, Esq., M.A.
Prof. Abanindranath Tagore, C.I.E., D.Litt.
J. C. Coyajee, Esq., B.A., LL.B.

FACULTY OF SCIENCE.

Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.—*Dean.*
Sir Nilratan Sircar, Kt., M.A., M.D., D.C.L., LL.D.
Rai Chunilal Bose, Bahadur, M.B., F.C.S., I.S.O.
Kedarnath Das, Esq., Dhatrividyarnab, C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Prof. C. E. Cullis, Ph.D., D.Sc.
G. C. Bose, Esq., M.A., M.R.A.S.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., M.I.E. (Ind.)
J. C. Ghosh, Esq. M.A.
E. P. Harrison, Esq., Ph.D., F.R.S.E., F.Inst.P.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
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Rev. J. Watt, M.A., D.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
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D. Thomson, Esq., M.A., B.Sc., Ph.D.
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J. A. Taylor, Esq., M.Sc.

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The Hon'ble Nawab Sir Syed Shamsul Huda, K.C.I.E., M.A., B.L.
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Abdullah-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., M.L.C.

BOARDS OF STUDIES.

Constitution of the Boards of Studies for the year 1921-22 was as follows :—

(1) *Board of Studies in English.*

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Charuchandra Biswas, Esq., M.A., B.L.
Harendracoomar Mookerjee, Esq., M.A., Ph.D.
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(2) *Board of Studies in Greek, Latin, French, German and Armenian.*

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S. Khuda Buksh, Esq., M.A., B.C.L.
W. C. Wordsworth, Esq., M.A., M.L.C.
A. H. Harley, Esq., M.A.
E. F. Oaten, Esq., M.A., LL.B.
Rev. E. O. Dewick, M.A.

(3) *Board of Studies in Sanskrit.*

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Pramathanath Banerjee, Esq., M.A., B.L.
Asutosh Sastri, Esq., M.A.
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(4) *Board of Studies in Sanskritic Languages.*

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Rai Bahadur Dr. Dineschandra Sen, B.A., D.Litt.
J. R. Banerjea, Esq., M.A., B.L.
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Jaminibhushan Ray, Esq., *Kaviratna*, M.A., M.B., M.R.A.S.
Manmathanath Ray, Esq., M.A., B.L.
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Asutosh Sastri, Esq., M.A.
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(5) *Board of Studies in Hebrew.*

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(6) *Board of Studies in Arabic, Persian and Urdu.*

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Maulavi Muhammad Irfan, M.A.
S. Khuda Baksh, Esq., M.A., B.C.L.
The Hon'ble Mr. Justice Z. R. Z. Suhrawardy, M.A., B.L., Barrister-at-Law
A. H. Harley, Esq., M.A.
Khan Bahadur Maulavi Ahsanullah, M.A.
Aga Md. Kazim Shirazi.
H. Suhrawardy, Esq., F.R.C.S.I., L.M., M.D., M.L.C.

(7) *Board of Studies in History.*

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Rev. Dr. J. Watt, M.A., D.D.
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(8) *Board of Studies in Political Economy and Political Philosophy.*

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Prof. Hiralal Haldar, M.A., Ph.D.
W. C. Wordsworth, Esq., M.A., M.L.C.
Manmathanath Ray, Esq., M.A., B.L.
R. N. Gilchrist, Esq., M.A.
Pramathanath Banerjee, Esq., M.A., B.L.
E. F. Oaten, Esq., M.A., LL.B.
J. C. Coyajee, Esq., B.A., LL.B.

(9) *Board of Studies in Mental and Moral Philosophy.*

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Prof. Hiralal Haldar, M.A., Ph.D.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.

(10) *Board of Studies in Chemistry.*

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D. F.C.S., *President.*
Rai Chunilal Basu, Bahadur, M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Name.	Honorary Degree.
Professor Chandrasekhar Venkata Raman, M.A. ...	*Doctor of Science.*
Professor Abanindranath Tagore, C.I.E. ...	*Doctor of Literature.*
Professor Sir William Jackson Pope, K.B.E., F.R.S., M.A., M.Sc. (Tech.), LL.D., D.Sc. ...	*Doctor of Science.*
Professor Sylvain Levi, D.Litt. ...	*Doctor of Literature.*

5

Silver Jubilee of the Doctorate of the Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.

Silver Jubilee of the Doctorate of the Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I.

With a view to suitably recognise, from a purely academic standpoint, the manifold services rendered by him to the cause of the advancement of learning among his countrymen, the following members of the University formed themselves into a committee to commemorate the Silver Jubilee of the Doctorate of the Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D. :—

Prof. H. Stephen, M.A., D.D., Ph.D.—*President.*
„ C. V. Raman, M.A., D.Sc.
Rev. G. Howells, M.A., Ph.D., B. Litt., B.D.
Prof. S. K. Banerjee, M.A., D.Sc.
„ D. R. Bhandarkar, M.A., Ph.D.
„ P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Dr. A. Suhrawardy, M.A., Ph.D., D.Litt., M.L.C.
Dr D. N. Mallik, B.A., Sc.D., F.R.S.E.
Rai Bahadur Dineschandra Sen, B.A., D.Litt.
Mr. Hemchandra Dasgupta, M.A., F.G.S.
Prof. P. C. Mitter, M.A., Ph.D.
Dr. N. N. Sengupta, Ph.D.
Prof. Syamadas Mukerjee, M.A., Ph.D.
Mr. S. C. Ray, M.A.
J. C. Coyajee, Esq., B.A., LL.B.
Prof. Hiralal Haldar, M.A., Ph.D.
Aga Md. Kazim Shirazi.
Dr. S. C. Bagchi, B.A., LL.B., LL.D.
Rev. Dr. W. S. Urquhart, M.A., D.Litt.
Mr. Birajmohan Majumdar, M.A., B.L.
Prof. I. J. S. Taraporewalla, B.A., Ph.D.—*Secretary.*

of Anglo-Saxon in the University of Oxford, to deliver a course of lectures in this University on "Some aspects of the study of English."

On the recommendation of the Council of Post-Graduate Teaching in Arts, the Senate invited Dr. T. O. D. Dunn, M.A., D.Litt., to deliver a course of Lectures on "The influence of the East in general and of India in particular upon the literature of the Eighteenth and Nineteenth Century England" according to the following scheme—

Lecture I—Orientalism in the Literature of 18th Century England.

Lecture II—The Influence of John Company on English Prose and Poetry.

Lectures III and IV—Eastern Themes in the English picaresque novel.

15

Sir T. Palit and Sir Rashbehary Ghose Endowments.

The Governing Body of the Sir T. N. Palit Endowment for 1921-22.

The Hon'ble the Vice-Chancellor—*President Ex-officio.*
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
Lord Sinha of Raipur, P.C., K.C., K.C.S.I.
The Hon'ble Justice Sir B. K. Mullick, Kt. I.C.S.
Sir Nilratan Sircar, Kt., M A., M.D., D.C.L., LL.D.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph D., F.C.S,
Prof. C. V. Raman, M.A., D.Sc.
*Janakinath Bhattacharyya, Esq., M.A., B L.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.,
J. B. Banerjee, Esq., M.A., B.L.
Rev. J. Watt, M.A., D.D.

The Board of Management of the Sir Rashbehary Ghose Endowment for 1921-22.

The Hon'ble the Vice-Chancellor, *President, Ex-officio.*
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Prof. Sudhansukumar Banerjee, D Sc.
Prof. D. M. Bose, M.A., B.Sc., Ph.D.

* Died during the year.

Prof. P. C. Mitter, M.A., Ph.D.
Prof. S. P. Agharkar, M.A.
Heramhachandra Maitra, Esq., M.A.
G. C. Bose, Esq., M.A.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
J. C. Ghosh, Esq., M.A.
Prof. Hemendrakumar Sen, Ph.D.
Prof. Phanindranath Ghosh, Ph.D.

16

UNIVERSITY COLLEGE OF SCIENCE.

GOVERNING BODY OF THE UNIVERSITY COLLEGE OF SCIENCE

In accordance with the scheme for the management of the University College of Science recently adopted by the Senate, the under-mentioned gentlemen were appointed to the Governing Body of the College of Science for the year 1921-22 :—

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I. M.A., D.L., D.Sc., Ph.D., Vice-Chancellor—*President.*
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.—*Vice-President.*
H. C. Banerjee, Esq., M.A., B.L., *Secretary.*

MEMBERS OF THE GOVERNING BODY OF THE PALIT TRUSTS

The Hon'ble the Vice-Chancellor.
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
Lord Sinha of Raipur, P.C., K.C., K.C.S.I.
The Hon'ble Justice Sir R. K. Mullick, Kt., I.C.S.
Sir Nilratan Sircar, Kt., M.A., M.D., D.C.L., LL.D.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Sir P. C. Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S.
Prof. C. V. Raman, M.A., D.Sc.
Prof. P. Brühl, D.Sc., F.C.S., F.G.S., I.S.O.
J. R Banerjea, Esq., M.A., B.L.
Rev. J. Watt, M.A., D.D.
*Janakinath Bhattacharyya, Esq., M.A., B.L.

MEMBERS OF THE BOARD OF MANAGEMENT OF THE GHOSE ENDOWMENT.

The Hon'ble the Vice-Chancellor.
The Director of Public Instruction, Bengal.
The Dean of the Faculty of Science.
The Dean of the Faculty of Engineering.
The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Sir P. C. Ray, Kt., C.I.E.
Mr. Mahendranath Ray, C.I.E., M.A., B.L.
Prof. Sudhansukumar Banerjee, D.Sc.
Prof. D. M. Bose, M.A., Ph.D.
Prof. P. C. Mitter, M.A., Ph.D.
Prof. S. P. Agharkar, M.A.
Heramhachandra Maitra, Esq., M.A.

* Died during the year.

Dr. Haridas Bagchi, M.A., Ph.D.
Mr. Hariprasanna Banerjee, M.Sc.
" Satischandra Basu, M.A.
" Indhubhushan Brahmachari, M.A.
Prof. C. E. Cullis, M.A., Ph.D., D.Sc.
Mr. Sasindrachandra Dhar, M Sc.
" Surendramohan Ganguli, M.Sc.
" Mahitmohan Ghosh, M.Sc.
" Satischandra Ghosh, M.A.
" Manoranjan Gupta, M.Sc.
" Narendrakumar Majumdar, M.A.

A statement of work of the Department of Post-Graduate Teaching in Arts for the Session 1920-21, had been circulated to the members of the Senate and was presented to the Senate meeting on the 18th of February, 1922. A similar statement for the session 1921-22, will also be submitted to the Senate in due course.

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19 • •

COUNCIL OF POST-GRADUATE TEACHING IN SCIENCE, 1921-22.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *President.*
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" Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Mr. Jnanchandra Ghosh, M.A.
Rai Bahadur Dr. U. N. Brahmachari, M. A., M. D., Ph.D.
Principal, Presidency College, Calcutta.
Principal, Ripon College, Calcutta.
Principal, Scottish Churches College, Calcutta.
Principal, City College, Calcutta.
Principal, Bangabasi College, Calcutta.
Principal, Vidyasagar College, Calcutta.
Rector, St. Xavier's College, Calcutta.
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Mr. Bhupendrachandra Das, M.Sc.
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" Bibhutibhushan Datta, M.Sc.
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" Nikhilranjan Sen, M.A.*
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" Sailkumar Acharyya, M.Sc.
" Charuchandra Bhattacharyya, M.A.
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Mr. Brajendranath Chakraberti, M.Sc.
Prof. Phanindranath Ghosh, M.A., Ph.D.*
Mr. P. C. Mahalanabis, B.A.
Dr. Sisirkumar Mitra, D.Sc.

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* On leave.

Mr. Dwijendrakumar Majumdar, M.A.
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„ Bidhubhushan Ray, M.Sc.
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Mr. Abinaschandra Saha, M.Sc.*
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Mr. Bidhubhushan Datta, M.A.
Dr. Rasiklal Datta, D Sc.†
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„ S. C. Mahalanabis, B.Sc., F.R.S.E.
„ Saratlal Biswas, M.Sc.
„ Hemchandra Dasgupta, M.A., F.G.S.
„ E. Vredenburg, B.Sc., A.R.S.M.*
Rai Bharatchandra Dhar, Bahadur, M.A.
Dr. Haribar Ganguli, M.D.
Mr. K. Mitra, B.A. (Wis.).
Prof. S. Mallik, M.A. F.R.S., F.Z.S., F.R.M.S.*
Mr. H. Srinivasa Rao, M.A.

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Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S
Rai A. C. Bose, Bahadur, M.A.
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S. C. Mahalanobis, B.Sc., F.R.S.E.
Nibaranchandra Bhattacharyya, M.A.

* On leave.
† Resigned.

Mr. Saratlal Biswas, M.Sc.
„ Hemchandra Dasgupta, M.A., F.G.S.
„ K. Mitra, B.A.
Rai Bharatchandra Dhar, Bahadur, M.A.

POST-GRADUATE TEACHERS IN SCIENCE, 1921-22.

(Arranged in Alphabetical order).

APPLIED MATHEMATICS.

Prof. Sudhansukumar Banerjee, D.Sc.
Mr. Bhupendrachandra Das, M.Sc.
„ Sarudaprasanna Das, M.A.
„ Bibhutibhushan Datta, M.Sc.
„ Siteschandra Kar, M.A.
„ Karunamay Khastgir, M.Sc.
Dr. D. N. Mallik, B.A., Sc D., F.R.S.E.
„ Meghnad Saha, D.Sc.
Mr. Nikhilranjan Sen, M.A.*
„ Nripendranath Sen, M.Sc,
„ Hemchandra Sengupta, M.A.

PHYSICS.

Mr. Sushkumar Acharyya, M.Sc.
Prof. Sudhansukumar Banerjee, D.Sc.
Mr. Charuchandra Bhattacharyya, M.A.
Prof. D. M Bose, M.A., S.Sc., Ph D.
Mr. Brajendranath Chakravarti, M.Sc.
Dr. Phanindranath Ghosh, M.A., Ph.D.*
Prof. E. P. Harrison, Ph.D., F.R.S.E., F. (Inst.). P.
Mr. P. C. Mahalanabis, B.A.
„ Dwijendrakumar Majumdar, M.A.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
„ Smirkumar Mitra, D.Sc. *
Prof. C. V. Raman, M.A., D.Sc.
Mr. Bidhubhushan Ray, M.Sc.
„ Abinaschandra Saha, M.Sc.*
Dr. Meghnad Saha, D.Sc.
Mr. Jogeschandra Mookerjee, M.A.

CHEMISTRY.

Rai Jyotibhushan Bhaduri, Bahadur, M.A.
Mr. Bidhubhushan Datta, M.A.
Dr. Rasiklal Datta, D.Sc.†
Mr. Asutosh Maitra, M.A.
Dr. P. C. Mittor, M.A., Ph.D.
Dr. Jnanendranath Mookerjee, D.Sc.
Sir P. C. Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S.
Mr. Priyadaranjan Ray, M.A.
Dr. H. K. Sen, M.A., D.Sc.
Mr. R. N. Sen, M.Sc.
„ Palinbihari Sarkar, M.Sc.

---

* On leave.

† Resigned.

BOTANY.

Prof. S. P. Agharkar, M.A., Ph.D.
Mr. S. N. Bal, M.Sc.
„ Surendrachandra Banerjee, M.A.
Prof. P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. C. Nag, B.Sc.

PHYSIOLOGY.

Mr. Nibaranchandra Bhattacharyya, M.A.
„ S. C. Mahalanabis, B.Sc., F.R.S.E.

GEOLOGY.

Mr. Sarutlal Biswas, M.Sc.
„ Hemchandra Dasgupta, M.A., F.G.S.
„ E. Vredenburg, B.Sc., A.R.S.M.*

ZOOLOGY.

Rai Bharatchandra Dhar, Bahadur, M.A.
Dr. Haribar Ganguli, M.D.
Prof. S. Manlik, M.A., F.E.S., F.Z.S., F.R.M.S.*
Mr. K. Mitra, B.A.
„ H. Srinivasa Rao, M.A.

BOARDS OF HIGHER STUDIES (SCIENCE), 1921-22.

(*Arranged in Alphabetical order.*)

APPLIED MATHEMATICS.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.—*Chairman.*
Rai Abinaschandra Bose, Bahadur, M.A.
Prof. D. M. Bose, M.A., B.Sc., Ph.D.
„ Sudhansukumar Banerjee, D.Sc.
Mr. Bhupendrachandra Das, M.Sc.
„ Saradaprasanna Das, M.A.
„ Bibhutibhushan Datta, M.Sc.
„ Siteschandra Kar, M.A.
„ Karunamay Khastgir, M.Sc.
Dr. D. N. Mallik, B.A., Sc.D., F.R.S.E.
Prof. Meghnad Saha, D.Sc.
Mr Nikhilranjan Sen, M.A.*
„ Nripendranath Sen, M.Sc.
„ Hemchandra Sengupta, M.A.

PHYSICS.

The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc Ph.D.—*Chairman.*
Mr. Sushilkumar Acharyya, M.Sc.
Prof. Sudhansukumar Banerjee, D.Sc.
Mr. Charuchandra Bhattacharyya, M.A.
Prof. D. M. Bose, M.A., Ph.D.
„ P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.

* On leave.

University of Calcutta

MINUTES

FOR THE YEAR

1922

PART I

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 2.

THE 13TH JANUARY, 1922.

Present :

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Mr. W. C. Wordsworth, M.A., M.L.C.
Mr. Herambachandra Maitra, M.A.
Mr. B. Heaton, M.I.E. (Ind.)
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. R. Banerjea, M.A., B.L.
Dr. Hiralal Haldar, M.A., Ph.D.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Mr. Manmathanath Ray, M.A., B.L.
Mr. Charuchandra Biswas, M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Mr. Pramathanath Banerjee, M.A., B.L.
Mr. Ramaprasad Mookerjee, M.A., B.L.

1. Read a memo. from the Hon'ble the Vice-Chancellor, appointing Dr. Hiralal Haldar to act as a member of the Syndicate during the temporary absence of the Rev. Dr. G. Howells.

ORDERED—

To be recorded.

2. The Minutes of the Syndicate, dated the 7th January, 1922, were read and confirmed.

3. Read a joint report from Mr. J. R. Banerjea and Dr. H. C. Mookerjee on the subject of the proposed extension of affiliation of the Murarichand College, Sylhet, to the B.A. Honours standard in English, History and Philosophy.

RESOLVED—

That the Syndicate recommend to the Senate that, in extension of the affiliation already granted, the Murarichand College, Sylhet, be affiliated in English, History and Philosophy to the B.A. Honours standard with effect from the commencement of the session 1922-23.

4. The Registrar reported that Dr. A. Suhrawardy had expressed his inability to inspect the Murarichand College, Sylhet, in connection with the application for extension of affiliation of the College in Persian and Arabic to the B.A. Honours standard

RESOLVED—

That the Proceedings be confirmed.

98. Read a letter from the Head Mistress, Chittagong Khastagir's H. E. School for Girls (provisionally recognised), requesting permission to send up a candidate as a special case for the ensuing Matriculation Examination with Geography as an additional subject.

[*N.B.*—The Head Mistress states that although the school is not recognised in Geography, she was a Geographical teacher in the Diocesan College, Calcutta, and she herself taught the candidate that subject.]

RESOLVED—

That the permission asked for be granted.

99. Read a letter from the D. P. I., Bengal, forwarding copy of a report of inspection on the *Maishamura Rasmtakumari H. E. Institution* (unrecognised), in the District of Mymensingh.

RESOLVED—

That provisional recognition from January to December, 1923, be granted to the school, with permission to present candidates at the Matriculation Examination in 1923 and that a copy of the report be forwarded to the authorities of the school, with the intimation that the defects noticed therein should be removed at an early date.

100. Read a letter from Dr. J. N. Mookerjee, D.Sc., requesting that a single first class fare, both ways, from Calcutta to Madras may be sanctioned in order to enable him to be present at the forthcoming session of the Indian Science Congress to be held in Madras where he intends to read a paper on one of his researches.

RESOLVED—

That a single first class fare both ways from Calcutta to Madras, be sanctioned for Dr. J. N. Mookerjee, and that the money be paid out of the Travelling Allowance Fund.

101. Read a letter from Sir P. C. Ray, Kt., C.I.E., forwarding an estatimate, amounting to Rs. 1762-2-0 for the construction of an extra room, repairs in the bath rooms and for eqipments for his sitting room in the University College of Science.

The estimate has been prepared by the Bengal Chemical and and Pharmaceutical Works, Ld.

RESOLVED—

That the estimate be sanctioned.

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 3.

THE 20TH JANUARY, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Mr. W. C. Wordsworth, M.A., M.L.C.
Mr. Herambachandra Maitra, M.A.
Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.
Dr. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. J. R. Banerjea, M.A., B.L.
Mr. Birajmohan Majumdar, M.A., B.L.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S.
Mr. Manmathnath Ray, M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Mr. Pramathanath Banerjee, M.A., B.L.
Mr. Ramaprasad Mookerjee, M.A., B.L.

1. The Minutes of the Syndicate, dated the 13th January, 1922, were read and confirmed.

2. Read the Minutes of the Faculty of Medicine, dated the 16th January, 1922.

RESOLVED—

That the following resolutions adopted by the Faculty be approved and carried out:—

"RESOLVED—

That the Faculty, after considering the question referred to therein with regard to Medical Jurisprudence, are of opinion that, in this and all other subjects, the question as to what is oral and what is practical should be definitely decided by the Examiners in meeting on that subject, before the commencement of the Examination and suggest that this be added to the list of instructions issued to the Examiners."

"RESOLVED—

That it be pointed out to the Registrar of the General Council of Medical Education and Registration that in the case of the students of the Calcutta University the minimum qualification being its Intermediate Examination including Physics and Chemistry the conditions considered by the General Council of Medical Education and Registration of the United Kingdom for entering on the medical studies are fully complied with."

9

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 6.

THE 10TH FEBRUARY, 1922.

PRESENT:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., M.I.E. (Ind.).
J. E. Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Lt.-Col. B. H. Deare, C.I.E., M.R.C.P., D.P.H., I.M.S.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E. (Ind.).
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L.
H. Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.
Ramaprasad Mookerjee, Esq., M.A B.L.

1. The Minutes of the Syndicate, dated the 4th February, 1922, were read and confirmed.

2. Read the Proceedings of the Board of Accounts, dated the 21st January, 1922 (presenting the Budget Estimates for the year 1921-22).

ORDERED—

To be recorded.

RESOLVED—

That the Budget Estimates be placed before the Senate for adoption.

3. Read a report from the Controller of Examinations, stating that the Hon'ble the Vice-Chancellor has appointed the following gentlemen to set papers in the subjects under which their names appear, for the ensuing Intermediate and B.A. Examinations :—

Marathi Composition.

Professor D. R. Bhandarkar, M.A., Ph.D
Surendranath Sen, Esq., M.A., Ph.D.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 13.

THE 10TH MARCH, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Prof. P. Brahl, D.Sc., I.S.O., F.C.S., F.G.S.
J. R. Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Prof. Hiralal Haldar, M.A., Ph.D.
Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.,
Prof. D. R. Bhandarkar, M.A., Ph.D.
Pramathanath Banerjea, Esq., M.A., B.L.
H. Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 3rd March and the 7th March, 1922 were read and confirmed.

2. Read the following proceedings of the Board of Management of the Sir Rashbehary Ghose Endowment, dated the 4th March, 1922.

"The Board discussed the steps to be taken to award the Ghose Travelling Fellowships.

RESOLVED—

That the Hon'ble the Vice-Chancellor be requested to ascertain whether it would be practicable to send as Travelling Fellows—

(1) Professor D. R. Bhandarkar, M.A., Ph.D.
(2) " H. K. Sen, M.A., D.Sc., and
(3) Dr. S. K. Mitra, D.Sc.

Read an application from Satyendrakumar Ghosh, praying for the renewal of the Ghosh Research Scholarship in Physics awarded to him for a further period of one year.

The application is recommended by Dr. D. M. Bose, Ghosh Professor of Physics, University College of Science.

RESOLVED—

That the Scholarship be renewed on the same terms as before.

Read an application from Iodubhushan Sarkar offering himself as a candidate for a Sir Rashbehary Ghose Scholarship in Applied Chemistry.

The applicant passed the last M.Sc. Examination in Chemistry having been placed in Class I and conducted research work in the Presidency College while a student in the M.Sc. class and submitted two theses at the Examination.

Financial information relating to 1920-21 can be had from the Government auditors who are auditing the accounts of that period and that Financial information will to be supplied to Government for any subsequent period whenever asked for,

(3) stating that the resolution and the speeches appear to raise wider issues which have been placed before the Senate for consideration.

RESOLVED ALSO—

That the letter together with the Proceedings of Council relating to the motion be placed before the Senate for consideration.

5. In supersession of the previous orders of the Syndicate on the subject, the Parbaticharan Ray Medal was awarded to L. A. Gopalkrishna on the results of the Intermediate Examination in Law held in July, 1921.

6. Read the following Inspection report on the Bethune College, for 1919-20, 1920-21 and 1921-22 :—

The University of Calcutta & Acharya P.C.Ray 1906-1944

REPORT

ON

BETHUNE COLLEGE, CALCUTTA,

For 1919-20, 1920-21 and 1921-22.

(*Inspected on the 8th December, 1921.*)

The College is affiliated in the following standards and subjects :—

B.A.—English (Pass and Honours), Vernacular Composition, Sanskrit (Pass and Honours), Mathematics (Pass and Honours), Philosophy (Pass), History (Pass), Economics (Pass) and Botany (Pass).

I.A.—English, Vernacular Composition, Sanskrit, Bengali, Logic, History, Mathematics and Botany.

The tuition fee is Rs. 3 and the bus fee Rs. 2 or Re. 1-8 each if two or more students come from the same house. Each boarder in the Collegiate Hostel has to pay Rs. 11-8 per month which is supplemented by a Government grant of Re. 1-12 per head per month. The total amount thus obtained covers expense of food.

It will be seen that both I.A. and B.A. students pay Rs. 3 per month. Students of the Diocesan College and of the Loreto House have to pay Rs. 8 and Re. 12 respectively. The Lady Principal is of opinion that; generally speaking, Bethune College students come from middle-class families, and to increase the fee would act as a deterrent to the spread of higher female education in Bengal.

I. Governing Body.

The Governing Body for 1921-22 is constituted as follows :—

1. The Director of Public Instruction, Bengal—*President.*
2. The Principal of the College—*Secretary.*
3. Mrs. Gourlay.
4. Lady Bose.
5. Lady Chaudhuri.
6. Mr. S. C. Mahalanobis, B.Sc. (Edin.), F.R.S.E.
7. Mr. D. N. Ray, representing the staff.
8. Sir P. C. Ray, M.A., D.Sc.
9. Mrs. N. C. Sen.
10. Rai Chunilal Bose Bahadur.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 16.

THE 31ST MARCH, 1922.

Present :

The Hon'ble Justice Sir Asutah Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Hemendrachandra Maitra, Esq., M.A.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

Prof. P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.

Jnanranjan Banerjee, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.

T. H. Richardson Esq., M.A., B.A.I., M.I.C.E., M.I.E., (Ind.)

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

Manmathanath Ray, Esq., M.A., B.L.,

Prof. D. R. Bhandarkar, M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L.

H. Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.

Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 24th March, 1922, were read and confirmed.

2. Read the following Minutes of the Faculty of Medicine, dated the 28th February, 1922 :—

"The Faculty met in the room of the Hon'ble the Vice-Chancellor to meet Dr. Norman Walker, (who is representing the General Medical Council of Great Britain) and to discuss the questions of Midwifery Training in the Medical Colleges.

The Hon'ble the Vice-Chancellor, Dr. Norman Walker, Dr. Bamandas Mookerjee, Dr. Craig (Health Officer of the Calcutta Municipality) and Dr. Needham (Deputy Director General of Medical Services in India) were present by special invitation.

Col. Deare, in introducing Dr. Norman Walker, described briefly the object of Dr. Walker's visit and said that Dr. Walker had come to advise as to the best method of meeting

The University of Calcutta & Acharya P.C.Ray 1906-1944

8. RESOLVED—

That the following subjects be fixed for the Beereshur Mitter Medal for 1922 :—

1. Cottage Industries of Bengal.
2. Export of rice from India, (excluding Burma.)

9. Read a report from the Controller of Examinations, stating that Mr. Panchanan Mitra, M.A., has completed his course for Premchand Roychand Studentship and enquiring if a Mouat medal may be awarded to him.

RESOLVED—

That a Mouat medal be awarded to Mr. Panchanan Mitra.

10. Read the following letter from Sir Prafullachandra Ray, Kt., C.I.E., Palit Professor of Chemistry :—

"UNIVERSITY COLLEGE OF SCIENCE,
92, Upper Circular Road,
Calcutta, 24th March, 1922.

MY DEAR SIR ASUTOSH,

On your invitation, I joined the College of Science from its very inception and I have always tried my best to foster the spirit of research among those among whom I have been working. It is now my desire to place at the disposal of the University a sum of Rs. 10,000 representing the best part of my life's savings for founding an annual prize to be awarded for the best piece of research work in Chemistry, Pure or Applied, by any student working in the College of Science. The prize shall be open to competition among all graduates of this University. The Board of adjudicators for the prize shall be constituted as follows :—

Palit Professor of Chemistry.
Ghose Professor of Chemistry.
Ghose Professor of Applied Chemistry.
Singh Professor of Chemistry.

One other expert nominated annually by the other four members of the Board

The award shall be made by the Syndicate on the recommendation of the Board of Adjudicators.

The prize shall consist of a gold medal of the value of Rs. 100 and Rs. 500 in cash.

The prize is to be called the "Nagarjuna" prize after the great Indian Chemist of that name, whose accurate observations and painstaking investigations have justly elicited the applause

of succeeding generations, and who, as described in my History of Hindu Chemistry, is looked upon as the precursor of Chemical activity in this our ancient land.

If in the opinion of the adjudicators the work in any year is not up to the mark, the prize should be withheld for that particular year and would be awarded on any subsequent occasion.

Yours sincerely,

P. C. RAY."

RESOLVED—

1. That the letter be laid before the Senate with the recommendation that the offer be thankfully accepted.

2. That an order be placed for a die for the medal.

11. Read a letter from the Deputy Secretary to the Govt. of Bengal, intimating under Section 22, read with Section 21, Sub-Section 3 of the Indian Universities Act VIII of 1904, as amended by the Calcutta University Act VII of 1921, that the Government of Bengal are pleased to grant affiliation of the Murarichand College, Sylhet to this University in Mathematics up to the B.A. Honours standard, with effect from the commencement of the session 1922-23.

ORDERED—

That the matter be notified in the Gazette and communicated to the D. P. I., Assam.

12. The Registrar reported that, at the request of the Deputy Secretary to the Government of Bengal, he had forwarded the following statement for the information of Government on the subject of the questions asked by Mr. J. Chaudhuri, M. L. A., in the Indian Legislative Assembly.—

Questions asked by Mr. J. Chaudhuri.

(*a*) Are the Government aware and, if not, will they ascertain if it is not a fact that, in November or December last, when the Calcutta University was under the Government of India, the University pledged two lakhs of Treasury Bills out of the Fish Market Fund with the Bank of Bengal to meet expenditure in the General Fee Fund, etc.?

(*b*) Is it not a fact that the said Fish Market Fund was a grant made by the Government of India to the University for specified purposes, and was not the University bound to hold the said fund subject to certain specified conditions?

(*c*) If so, will the Government state what were those purposes, and what were those conditions?

The University of Calcutta & Acharya P.C.Ray 1906-1944

III Teaching staff:

(a) The names and qualifications of the Teaching Staff for 1920-21 are given in Appendix I.

It will be seen that there were 42 Teachers teaching 1,756 boys there being about 41 students to each teacher.

On enquiry we found that the rule in this College is for Lecturers to start on a minimum salary of Rs. 100 per month. After two years' service they are placed on grade Rs. 100-10-150. Two years after the maximum is reached they are placed on the next grade Rs. 150-10-200. After this there are the third and fourth grades to which they can proceed the value of each being Rs. 200-25-250 and Rs. 250-25-300. In exceptional cases Lecturers receive Rs. 400-50-500, the Principal drawing Rs. 800 per month.

We further learnt that in view of the increased cost of living the Governing Body allowed to all servants a bonus of 15% to 20% monthly of their salary according to the amount received. Those who drew Rs. 400 and upwards per month did not get any bonus This bonus was paid from September, 1920, to March, 1921. It has been kept in abeyance on account of the effect of the non-co-operation movement on the income of the College.

(*b*) *Tutorial Work.*

Tutorial work is done from July to December in the 4th-year class in English, Sanskrit, History and Politics and in the 2nd year class in English, Sanskrit, History and Logic. Students meet their tutors once a week. Attendance is compulsory as absence means loss of percentage.

Tutorial work in the First and the Third year classes in the subjects mentioned above is attempted after the Second and the Fourth year classes are dissolved.

The maximum number in each tutorial section is about 30. The actual attendance varies from 20 to 22.

It appears that weekly examinations are held regularly all subjects being taken in rotation. Students have to answer one-hour papers. Mistakes are corrected and discussed in the class; answers are valued and record kept of the marks obtained.

IV. Numerical Strength and Subjects Taught.

On the 5th October, 1918, there were 1693 students, on the 4th November 1919, 2078 students and on the 27th September, 1920, 1756 students on the rolls of the College.

In the last session (1920-21) there were 617 students in the I.A. classes, 335, students in the B.A. classes, 683 students in

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1922

PART IV

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

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Minutes of the Syndicate

FOR THE YEAR 1922.

No. 48.

THE 3RD NOVEMBER, 1922.

Present :

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

W. C. Wordsworth, Esq., M.A., M.L.C.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Heramba Chandra Maitra, Esq., M.A.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Brajmohan Majumdar, Esq., M.A., B.L.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
Prof. Hiralal Haldar, M.A., Ph.D.
T. H. Richardson, Esq., M.A., B.A.I. M.I.C.E., M.I.E. (Ind.)
Bidhan Chandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 27th October, 1922, were read and confirmed.

2. Read a letter from the Corporation of Calcutta stating in reply to the Registrar's letter No. A63, dated the 4th August, 1922, that the assessment of the *Fish Market* (43 Kalutola Street) has been reduced from Rs. 26,244 to Rs. 22,106 per annum with effect from the third quarter of 1922-23.

ORDERED—

To be recorded.

3. The Registrar placed before the Syndicate a bill for Rs. 77-8 for printing confidential papers.

ORDERED—

That the bill be paid.

4. The Registrar placed before the Syndicate a bill for remuneration to the Examiners at the last D.P.H. Examination.

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the provisional recognition of the school be extended up to 31st December, 1923, with permission to present candidates at the Matriculation Examination in 1924 and that a copy of the report be forwarded to the authorities of the school, with the intimation that the defects noticed therein should be removed at an early date.

64. Read a letter from the President, *Garia Central Institution*, (Provisionally recognised) in the District of 24-Parganas, reporting that in appreciation of the fact that the construction of the new school building has been very generously undertaken by *Babu Baradaprasad Ghatak*, at his own cost and expenses, the Managing Committee of the School has decided to change the name of the school to Baradaprasad High School, Garia, and requesting that necessary changes may be made in the records of the University.

RESOLVED—

That the proposed change of name be approved and that necessary alterations be made in the records of the University.

65. Read the following letter :—

University College of Science,
Department of Chemistry,
92, Upper Circular Road
Calcutta, 1st November, 1922.

To

THE REGISTRAR,
CALCUTTA UNIVERSITY.

Dear Sir,

I beg to request you to convey to Governing Body of the College of Science my sincere thanks for the extension of my services on full pay for a period of five years. But as I have completed my 60th. year I feel I cannot accept any remuneration, and would therefore request you to utilise my salary from the month of September last onwards for the furtherance of the department of Chemistry (both general and applied), or for such other purpose as the Vice-Chancellor and the Governing Body may deem fit.

Thanking you again,
Yours truly,
P. C. RAY.

RESOLVED—

(1) That the letter be placed before the Governing Body of the College of Science and that meanwhile the cordial thanks of the Hon'ble the Vice-Chancellor and Syndicate be conveyed to Sir P. C. Ray.

(2) That the letter be placed before the Senate at their next meeting.

66. Read the following letter—

University College of Science.
Calcutta, 1st November, 1922.

To
THE REGISTRAR,
CALCUTTA UNIVERSITY.

Dear Sir,

I beg to request you to be so good as to appoint Babu Kshitischandra Ray, who has been my research assistant since the last seven years and whom I was paying so long out of my own private funds, as a permanent research assistant on a salary of Rs. 75-10-125, with effect from to-day the 1st November.

I remain,
Yours truly,
P. C. Ray.

RESOLVED—

That the letter be placed before the Governing Body of the University College of Science.

67. The Registrar reported that under orders of the Hon'ble the Vice-Chancellor, orders for the supply of apparatus of the approximate value of £ 179 to Professor M. N. Saha, had been placed with Messrs. Adair, Dutt & Co, and that a sum of £ 100 had been advanced to them, out of the *Sir Rashbehary Ghose Funds* (*Second*) for supplying a lathe to the Science College Workshop.

RESOLVED—

That the matter be reported to the Governing Body of the University College of Science.

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 50.

THE 10TH NOVEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

W. W. Hornell, Esq., C.I.E., M.A., M.L.C.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.E.
Herambachandra Maitra, Esq., M.A.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E. (Ind.).
Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L.
H. Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 3rd and the 8th November, 1922, were read and confirmed.

2. Read a letter from Professor M. N. Saha, Secretary, Workshop Committee of the Science College, requesting that a *permanent advance* of Rs. 100 may be sanctioned for the Workshop.

RESOLVED—

That a permanent advance of Rs. 100 be sanctioned for the Science College workshop.

3. Read a letter from the Bengal Telephone Corporation, forwarding for the Registrar's Signature a new agreement for Telephone Service at 92, Upper Circular Road, and a bill for Rs. 300 on account of rental for the year ending 16th October, 1923.

RESOLVED—

That the draft agreement be approved and that the bill be paid.

4. Read a letter from the Sub-Divisional Officer, Feni, regarding creation of a permanent centre at Feni for the Matriculation Examination, informing that he is willing to accept the usual conditions.

The Controller of Examinations suggested that the Centre might be made permanent so long as the conditions were fulfilled.

RESOLVED—

That Feni be created a permanent centre for holding the Matriculation Examination.

The University of Calcutta & Acharya P C.Ray 1906-1944

been serving as a teacher in the above Institution for more than three years, praying for permission to proceed to the next I.Sc. Examination as a non-collegiate student with Physics, Chemistry and Mathematics as his combination of subjects.

The applicant has submitted a certificate from the Principal, American College, Madura, to the effect that he took a course of practical training for completion of the Intermediate Course, Group I (with Physics and Chemistry) of the Madras University from 1913 to 1916.

RESOLVED—

1. That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next I.Sc. Examination as a non-collegiate student.

2. That the applicant be informed that he must also appear at the next Matriculation Examination in a Classical Language and that his admission to the I.Sc. Examination will be cancelled if he fails to pass the Matriculation Examination in the subject.

68. Read an application, forwarded by the Head Master, Rajmahal High English School (Santhal Parganas), from Devendranath Das, who is at present serving as a Head Pandit in the above Institution and who was unsuccessful at the Matriculation Examination of this University as a private candidate in 1919, praying for permission to proceed to the next Matriculation Examination as a private candidate without undergoing the test examination held by the Divisional Inspector of Schools on the ground of poverty.

RESOLVED—

That the permission asked for be granted.

69. Read an application from the Secretary, Bagra Gagan H. E. School (unrecognised) in the District of Tipperah, praying for recognition of the School.

ORDERED—

That a copy of the application be forwarded to the D.P.I., Bengal, for favour of a report.

70. Read a report from Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., on the research work carried on by Dr. Jnanendranath Mookerjee, D.Sc., during the second year's term as a Premchand Roychand Student.

RESOLVED—

That the report be approved and that the scholarship be continued to be paid to Dr. Jnanendranath Mookerjee.

71. Read a letter from the Principal, Krishnath College, Berhampore, requesting (i) that an examination for the B. Com. Degree may be held in 1923 and (ii) that in view of the fact that the Commerce Department of the College has been going on regularly in accordance with the requirements of the

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 51.

THE 14TH NOVEMBER, 1922.

(In circulation)

Read the following letter :—

To

THE VICE-CHANCELLOR,
CALCUTTA UNIVERSITY.

Calcutta, the 14th November, 1922.

DEAR SIR,

We find that the *Bengalee* in its issue of this morning has reproduced an article on this University from the *Times Educational supplement*, which contains an attack upon the administration of the University, based on the letter addressed to this University by the Government of Bengal on the 23rd August, 1922 and now under the consideration of the Senate. The *Bengalee* states that the article has been reprinted in its columns at the request of the Government of Bengal (Publicity Department.)

The situation thus created is so grave that in our opinion the Senate should assemble without delay to enable it to consider the position and to take such action as may be necessary.

In these circumstances, we request you, under Section 8 of Chapter I of the Regulations, to convene a meeting of the Senate as early as practicable.

Yours faithfully,

MAHENDRANATH RAY,
G. C. BOSE,
A. CHAUDHURI,
P. C. RAY,
KAMINI K. CHANDA,
J. MOITRA,

Members of the Senate.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR, 1922.

No. 84.

THE 1ST DECEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Heramhachandra Maitra, Esq., M.A.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. G. Bowells, M.A., B.Litt., B.D., Ph.D.
Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjea, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 24th November, 1922 were read and confirmed.

2. Read an endorsement from the Principal, College of Technology, Manchester, forwarding a report from Mr. Jnanendra Nath Sinha, *Guruprasanna Ghosh Scholar.*

RESOLVED—

That the report be approved and that the Scholarship be continued to be paid to Mr. Jnanendranath Sinha.

3. Read a letter from Srimati Swarnalata Devi, widow of Mr. Hira Lal Sanyal, stating that her husband died on the 3rd November 1922, and requesting that the salary due to him as a Professor of the Law College, and his remuneration as an Examiner at the last Law Examination may be paid to her.

The Registrar reported that under orders of the Hon'ble the Vice-Chancellor he had sent the lady a cheque for Rs. 493-2-0 in payment of her husband's dues from the University.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The Registrar reported that the following books had been presented to the University Library by Babu Saratchandra Mitra, Lecturer, Calcutta University :—

(a) Journal of the Anthropological Society of Bombay Vol. XII - No. 2 1 copy.
(b) On an Egg-Myth from Orissa, 2 copies.
(c) The Cult of the Lake-Goddesses of Orissa, 2 copies.
(d) Notes on Ho Riddles, Pt. III, 2 copies.

RESOLVED—

That the donor be thanked."

RESOLVED—

That the proceedings be confirmed.

108. Read the Report of the Age Committee, dated the 4th November, 1922.

RESOLVED—

That the report be confirmed.

109. Read an application from Ratneswar Banerjee, who read up to the Matriculation Class of the Bajrojogini H. E. School and subsequently left it with a view to appearing at the Adya Examination of the National University in 1922, praying that he may be permitted to appear at the ensuing Matriculation Examination of this University as a private candidate with Sanskrit and Geography as additional subjects—after passing the Test Examination at the Munshiganj H. E. School.

RESOLVED—

That the application be granted.

110. The Registrar reported that the following Memorandum had been sent to His Excellency the Chancellor :—

MEMORANDUM

The *Times Educational Supplement*, in its issue of the 14th October, 1922, published an article headed "A Bankrupt University," containing an attack on the administration of this University, based on the letter from the Government of Bengal to the University, dated the 23rd August, 1922. The *Bengalee*, in its issue of the 14th November, 1922, reprinted the article with the following introductory statement : "*We have been requested by the Publicity Officer of the Government of Bengal to reproduce the following inspired article from the Times Educational Supplement on the present financial position of the University of Calcutta.*"

In the course of the same day, the following requisition was received by the Vice-Chancellor :

"To

THE VICE-CHANCELLOR,
CALCUTTA UNIVERSITY.

Calcutta, the 14th November, 1922.

DEAR SIR,

We find that the *Bengalee* in its issue of this morning has reproduced an article on this University from the *Times Educational Supplement*, which contains an attack upon the administration of the University, based on the letter addressed to this University by the Government of Bengal on the 23rd August, 1922, and now under the consideration of the Senate. The *Bengalee* states that the article has been reprinted in its columns at the request of the Government of Bengal (Publicity Department).

The situation thus created is so grave that in our opinion the Senate should assemble without delay to enable it to consider the position and to take such action as may be necessary.

In these circumstances, we request you, under Section 3 of Chapter I of the Regulations, to convene a meeting of the Senate as early as practicable.

Yours faithfully,
Mahendranath Ray.
G. C. Bose.
A. Chaudhuri.
P. C. Ray.
Kamini K. Chanda.
J. Maitra.
Members of the Senate."

Section 3 of Chapter I of the Regulations mentioned in the requisition requires that the Vice-Chancellor *shall* convene a meeting of the Senate on the requisition of any six Fellows.

On receipt of the requisition, the Vice-Chancellor, in compliance with the Regulations, made the following order :

" Under Section 3, Chapter I, of the Regulations, I hereby convene a meeting of the Senate for the consideration of the above requisition, to be held at 4-30 P.M. on Saturday, the 18th November, 1922.

14th November, 1922. ASUTOSH MOOKERJEE,
Vice-Chancellor."

The meeting was accordingly held on the 18th November, 1922. Sir Asutosh Chaudhuri, one of the signatories to the

The University of Calcutta & Acharya P.C.Ray 1906-1944

requisition, had given the following notice of his intention to move a resolution at the meeting :

"To

THE REGISTRAR,
Calcutta University.

Calcutta, the 14th November, 1922.

DEAR SIR,

I give notice that I shall move the following resolution at the meeting of the Senate to be convened pursuant to the requisition of to-day's date of which I am one of the signatories :

"That the matter be brought to the notice of His Excellency the Chancellor with the request that a full enquiry be made as to how the Publicity Department of the Government of Bengal came to request the *Bengalee* to publish the article in the *Times Educational Supplement* relating to the financial condition of the Calcutta University."

Yours truly,
A. CHAUDHURI,
Member of the Senate."

At the meeting, Sir Asutosh Chaudhuri moved the resolution which he had notified.

Mr. Manmathanath Ray seconded the motion.

Rai Bahadur Dr. Chunilal Bose expressed the opinion that before any action was taken by the Senate, they should make sure that the allegation made by the *Bengalee* that it had been "requested by the Publicity Officer of the Government of Bengal" to reproduce the article was well-founded in fact.

Sir Nilratan Sircar at this stage stated that as a question had been raised as regards the genuineness of any communication from the Publicity Office to the Editor of the *Bengalee*, he felt himself under the necessity of placing before the Senate the letter which had been handed over to him by the Editor. He then read out the letter a copy of which is annexed herewith. When questioned as to how the letter had come into his possession, he stated that he had a responsible part in the management of the *Bengalee*, that the letter had been made over to him by the Editor, and that he had been authorised to place it before the Senate, if necessary.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The motion was subsequently amended by insertion of the word "office" for "department." The amended motion was put to the vote and carried in the following form, there being two dissentient votes:

"That the matter be brought to the notice of His Excellency the Chancellor with the request that a full enquiry be made as to how the Publicity Office of the Government of Bengal came to request the *Bengalee* to publish the article in the *Times Educational Supplement* relating to the financial condition of the Calcutta University."

The grounds on which the Senate consider that the action taken by the Publicity Office is open to grave objection may be briefly summarised as follows:

1. The question of the financial administration of the University raised in the report of the Accountant-General and the letter from the Government of Bengal is pending before the Senate and is under examination by a Committee. Pending the decision of the Senate, it is not proper that the Publicity Office, which is a department under the Government, should take steps to secure the circulation of an article in a newspaper, which proceeds on the basis of the Government letter.

2. The article in question does not state facts but expresses opinions. The Publicity Office should not concern itself with the circulation of opinions expressed in newspaper articles.

3. The Publicity Office, if it should at all concern itself in a matter of this description, should not circulate adverse opinions alone, ignoring opinions expressed in favour of the University.

Telephone No. 585 Regent.
GOVERNMENT OF BENGAL.

D. O. 3895.
PUBLICITY OFFICE, BENGAL,
5, Esplanade Row, West,
CALCUTTA:
11th November, 1922.

Private.

DEAR MR. ROY,

I shall be extremely obliged if you could see your way to reprinting the accompanying extract from the "Times of India Educational Supplement" in an early issue of your paper.

Thanking you in anticipation.

Yours sincerely,
Sd. S. SEN GUPTA,
11/11.

P. C. ROY, ESQ.,
Editor, Bengalee, Calcutta.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1922.

No. 56.

THE 15TH DECEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Prof. P. Bethi, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E. (Ind.)
Bidhanchandra Ray, Esq., B.A., M.D. M.R.C.P., F.R.C.S.
Manmathanath Ray, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L.
H. Suhrawardy, Esq., M.D., F.R.C.S.I. L.M., M.L.C.
Ramaprasid Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 8th December, 1922, were read and confirmed.

2. RESOLVED—

That the Syndicate recommend to the Senate that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1923-24 be constituted as follows :—

FACULTY OF ARTS.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
W. W. Hornell, Esq., C.I.E., M.A., M.L.C.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
Mahendranath Ray, Esq., C.I.E., M.A., B.L.
Herambachandra Maitra, Esq., M.A.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D., M.L.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Egerton Smith, Esq., M.A.
Prof. Abanindranath Tagore, C.I.E., D.Litt.
J. C. Coyajee, Esq., B.A., L.L.B.
Shams-ul-Ulama Maulavi Hidayet Husain, Khan Bahadur.
Miss G. M. Wright.
Khagendranath Mitra, Esq., M.A., M.L.A.

FACULTY OF SCIENCE.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Girischandra Bose, Esq., M.A., M.R.A.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.
Rev. J. Watt, M.A., D.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. B. Meek, Esq., M.A., D.Sc., F.R.Met.S.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
J. A. Taylor, Esq., M.Sc.

FACULTY OF LAW.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
Mahendranath Ray, Esq., C.I.E., M.A., B.L.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D., M.L.A.
Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.
Satischandra Bagchi, Esq., B.A., LL.B., LL.D.
Birajmohan Majumdar, Esq., M.A., B.L.
The Hon'ble Mr. Abdul Majid, C.I.E., B.A., LL.B.
S. Khuda Buksh, Esq., M.A., B.C.L.
The Hon'ble Mr. Justice Z. R. Zahid Suhrawardy, M.A., B.L.
Manmathanath Ray, Esq., M.A., B.L.
Sir T. C. P. Gibbons, Kt., K.C.
Kaminikumar Chanda, Esq., M.A., B.L.
Abdulla-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., M.L.C.
Nawab A. F. M. Abdur Rahman, Khan Bahadur.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1922

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CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1922.

No. 2.

THE 7TH JANUARY, 1922.

Present.

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.—*Dean.*
Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
J. C. Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Rai Bhupatinath Das, Bahadur, M.A., B Sc.
Prof. P. C. Mitter, M.A., Ph.D.
Surendrachandra Banerjee, Esq., M.A., B.Sc.

The Faculty met to elect an Ordinary Fellow inplace of Prof. P.C. Mitter, M.A., Ph.D., whose tenure of office as an Ordinary Fellow will expire, under Section 4 of the Indian Universities Act, 1904, as amended by Act VII of 1921, on the 15th of February, 1922.

The undermentioned gentleman had been nominated for election :—

Name.	*Proposed by*—
Prof. P. C. Mitter. M.A., Ph.D.	(1) Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S. (2) Sir P. C. Ray. Kt., C.I.E., D.Sc., Ph.D., F.C.S. M.A. (Cal.).

Qualifications as stated by the Proposers.

Ph.D. (Berlin); Sir Rashbehary Ghose Professor of Chemistry; Fellow of the Calcutta University since 1917; Member of the Faculties of Arts and Science; Member of the Executive Committee of the Council of Post-Graduate Teaching in Science. Member of the Board of Accounts; etc. etc.

As the number of candidates did not exceed the number to be elected, the Dean declared Prof. P. C. Mitter duly elected an

Ordinary Fellow, subject of the approval of His Excellency the Chancellor.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1922.

No. 1.

THE 28TH JANUARY, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

The Hon'ble Sir Surendranath Banerjee, Kt.

The Hon'ble Mr. Prabhaschandra Mitter, C.I.E., M.A., B.L.

The Hon'ble Nawab Saiyid Nawab Ali Chaudhuri, Khan Bahadur, C.I.E.

W. C. Wordsworth, Esq., M.A., M.L.C.

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.

Mahendranath Ray, Esq., C.I.E., M.A., B.L.

Heramchandra Maitra, Esq., M.A.

Adhirchandra Mukerjee, Esq., M.A., B.L.

Rai Obundlal Bose Bahadur, C.I.E., M.B., I.S.O., F.C.S.

Prof. H. Stephen, M.A., D.D., Ph.D.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Girishchandra Bose, Esq., M.A., M.R.A.S.

Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Sir Taraknathchandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Jnanchandra Ghosh, Esq., M.A.

Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., M.I.E. (Ind.)

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Satischandra Bagchi, Esq., B.A., LL.B., LL.D.

Shamsul-Ulama Abu Nasr Md. Waheed, M.A.

Rai Dineschandra Sen, Bahadur, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Jnanranjan Banerjea, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

E. E. Biss, Esq.

J. B. Barrow, Esq., M.A.

Jamini Bhushan Ray, Esq., *Kaviratna*, M.A., M.B.

Rev. Father F. X. Crohan, S.J.

Prof. Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

T. S. Sterling, Esq., M.A.

Rai Bhupatinath Das, Bahadur, M.A., B.Sc.

Maulvi Muhammad Irfan, M.A.

S. Khuda Buksh, Esq., M.A., B.C.L.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

FACULTY OF SCIENCE.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Prof. C. R. Cullis, Ph.D., D.Sc.
Girischandra Bose, Esq., M.A., M.R.A.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
E. P. Harrison, Esq., Ph.D., F.R.S.E., F.(Inst.)P.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.
Rev. J. Watt, M.A., D.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. B. Meek, Esq., M.A., D.Sc., F.R.Met.S.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
C. A. Bentley, Esq., M.B., D.P.H., D.T.M.H.
J. A. Taylor, Esq., M.Sc.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1922.

No. 3.

THE 4TH FEBRUARY, 1922.

Present:

Professor P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., M.I.E. (Ind). *in the Chair.*	Rai Ahinasachandra Bose, Bahadur, M.A C. A. Bentley, Esq., M.B., D.P.H., D.T.M.H.

The Faculty met to elect its Dean for the year 1922-23.

Professor P. J. Brühl, D.Sc., I.S.O., F.C S., F.G.S., M.I.E. (Ind)., was voted to the Chair.

On the motion of Professor P. J. Brühl, seconded by Mr. C. A. Bentley, Sir P. C. Ray was elected Dean of the Faculty for the year 1922-23.

(Confirmed.)

P. J. BRÜHL,
Chairman.

J. C. CHAKRAVORTI,
Asst. Registrar

Minutes of the Faculty of Science.

FOR THE YEAR 1922.

No. 4.

THE 25TH FEBRUARY, 1922.

Present:

Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.,
Dean, in the Chair.

G. C. Bose, Esq., M.A., M.R.A.S.
S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.
J. C. Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Rev. J. Watt, M.A., D.D.
Prof. P. C. Mitter, M.A., Ph.D.
Rai Abinashchandra Bose, Bahadur, M.A.

The Faculty met to elect Added Members for the year 1922-23.

The following were the names and statements of qualifications of the persons who had been duly proposed for election :—

Name.	*Proposed by*
Banerjee, Mr. Surendrachandra, M.A.	J. C. Ghosh, Esq., M.A.

Statement of Qualifications.

Mr. Banerjee took the M.A. degree in Botany in Class I, in 1907. He is Professor of Botany in the Presidency College. He has been an Added Member for a large number of years and as such has done excellent work.

Bhattacharyya, Mr Nibaran-chandra, M.A.	S. C. Mahalanobis, Esq., B.Sc., F.R.S.E.

Statement of Qualifications.

M.A., B.Sc., Professor of Physiology, Presidency College; an experienced teacher and University Lecturer, Examiner &c

the Calcutta University for M.A., M.Sc., B.A. and B.Sc. Examinations; was an Added Member of the Faculty of Science for several years and rendered valuable help as a Member of the Board of Studies in Physiology.

Dasgupta, Mr. Hemchandra, M.A., F.G.S.

Rai Abinaschandra Bose, Bahadur, M.A.

Statement of Qualifications.

Mr. Hemchandra Dasgupta, M.A., F.G.S., Professor of Geology at the Presidency College, Calcutta, and Lecturer on Geology, Calcutta University. Author of several contributions to the Journal and Proceedings of the Asiatic Society of Bengal, the Indian Association for the Cultivation of Science and the Indian Antiquary. Examiner in Geology at the B.Sc. and M.Sc. Examinations and Paper-setter in Geography at the Intermediate Examinations in Arts and Science. Was elected an Added Member for many years including the last year. He was the only member of the Faculty engaged in the teaching of Geology and accordingly his services were very valuable.

Sen, Prof. H. K., M.A., D.Sc.

Prof. P. C. Mitter, M.A., Ph.D.

Statement of Qualifications.

M.A. (Calcutta); D.Sc. (London); Premchand Roychand Scholar; Sir Rashbehary Ghose Professor of Applied Chemistry, Examiner in Chemistry in the B.Sc., M.Sc. and D.Sc. Examinations.

The result of the ballot was that none of the candidates had obtained a majority of votes on the Faculty (=11 votes).

(Confirmed.)

P. C. RAY,
Dean

J. C. GHOSH,
Registrar.

Minutes of the Senate

FOR THE YEAR 1922.

No. 6.

THE 18TH MARCH, 1922.

Present:

His Excellency the Right Hon'ble Lawrence John Lumbley Dundas, Earl of Ronaldshay, G.C.I.E., D.Litt., *Chancellor, in the Chair.*

The Hon'ble Justice Sir Asutosh Mookerjee, *Saraswati, Sastra-Vachaspati, Sambuddhagama-Chakravarti,* Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor.*

Ex-officio Fellows.

The Hon'ble Mr. P. C. Mitter, C.I.E., M.A., B.L.

W. C Wordsworth, Esq., M.A., M L.C

Honorary Fellows.

Gyanchandra Ghosh, Esq.

Ramcharan Mitra, Esq., C I.E., M.A., B.L.

Maulavi Abdul Karim, B.A.

Raj Yatindranath Chaudhuri, M.A., B.L.

Dwarkanath Chakrabarti, Esq., M.A., B.L.

B. Heaton, Esq., M.I E. (Ind.).

Jogendrachunder Dutt, Esq., M.A., B.L.

Jyotiprasad Sarbadhikari, Esq., M.A., B.L.

Ordinary Fellows.

Mahendranath Ray, Esq., C.I.E., M.A., B.L.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Harambachandra Maitra, Esq., M.A.

Prof. H. Stephen, M.A., D.D., Ph.D.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Prof. C. E. Cullis, Ph.D., D.Sc.

Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

Prof. P. J. Brühl, D.Sc., I.E.S., F.C.S., F.G.S.

Jnanchandra Ghosh, Esq., M.A.

Sir Rajendranath Mookerjee, K.C.I.E., M.I.E. (Ind.)

The University of Calcutta & Acharya P C.Ray 1906-1944

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Sattischandra Bagchi, Esq., B.A., LL.B., LL.D.

Rai Dineschandra Sen, Bahadur, B.A., D.Litt.

Jnanranjan Banerjee, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

E. E. Biss, Esq.

J. R. Barrow, Esq., M.A.

Lt.-Col. B. H. Deare, C.I.E., D.P.H., M.R.C.P.

Jamini bhushan Ray, Esq., *Kaviratna*, M.A., M.B.

Rev. Father F. X. Crohan, S.J.

Prof. Hiralal Haldar, M.A., Ph.D.

Rev. J. Watt, M.A., D.D.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

T. B. Richardson, Esq., M.A., B.A.I., M.I.C.E. (Ireland), M.I.E. (Ind.)

Rai Bhupatinath Das, Bahadur, M.A., B.Sc.

Maulvi Muhammad Irfan, M.A.

S. Khuda Buksh, Esq., M.A., B.C.L.

Bidhusekhandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S. (Eng.)

The Hon'ble Mr. Justice Z. R. Zahid Suhrawardy, M.A., B.L.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S.,

Rai Abinaschandra Bose, Bahadur, M.A.

Harendracoomar Mookerjee, Esq., M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L.

C. A. Bentley, Esq., M.B., D.P.H., D.T.M.H.

Aga Muhammad Kazim Shirazi.

Hassan Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.

Asutosh Sastri, Esq., M.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Prof. Abanindranath Tagore, C.I.E., D.Litt.

Khan Bahadur Shams-ul-Ulama Hidayet Hussain, M.A.

Miss G. M. Wright.

Jatindranath Maitra, Esq., M.B., M.L.C.

Pramathanath Nandi, Esq., M.D.

Prabhatnath Banerjee, Esq., M.A., (Cantab), A.M.I.E. (Ind.)

The Convocation was held for conferring the Ordinary Degrees of the year.

The *Ex-officio* Fellows, the Honorary Fellows and the Ordinary Fellows of the University, who had previously signified their intention of attending the Convocation, assembled, in academic costume, in the Senate House, College Square, Calcutta, at 2 P.M. At 2-20 P.M. they proceeded to the Entrance Hall and took their places in processional order according to the list previously supplied to them.

At 2-25 P.M. the Hon'ble the Vice-Chancellor, the Members of the Syndicate and the Registrar received His Excellency the Chancellor at the foot of the staircase. He was then conducted to the Entrance Hall, where he was received by the Fellows.

The University of Calcutta & Acharya P.C.Ray 1906-1944

British Empire in India. Little did I dream at the time that I might be summoned again to undertake the increasingly difficult task of reshaping my University, and this must have been the opinion of so far-sighted and sympathetic a statesman as Lord Hardinge himself, when he sent his message of regret at his absence from that academic function where he thought it would be my duty for the last time to address the Convocation as Vice-Chancellor. But man proposes and God disposes. One of the greatest surprises of my life happened on the day when a year ago I was summoned by your Excellency and was informed with the utmost cordiality and graciousness that both Lord Chelmsford, who was then our Chancellor, and Your Excellency yourself as our Rector, desired that I should again undertake the responsibilities of office. Refusal was impossible, yes it is needless to emphasise that I did not expect to be installed in a throne of diamonds. No one was more conscious than myself of the perils of the situation, visible and invisible, and I keenly realised that we might have to live through stormy times, specially as changes of a fundamental character had been accomplished in the field of our educational activities in the interval of seven years.

Let me remind you that in 1916, Lord Chelmsford appointed a representative Committee to advise the Government of India on the best method of early consolidation of Post-Graduate studies. The committee, over whose deliberations I was called upon to preside, included scholars and administrators of distinction, such as Professor Praphullachandra Roy, Professor Brajendranath Seal, Professor Hamilton, Principal Howells, Dr. Henry Heyden, Mr. Hornell, Mr. Anderson and Mr. Wordsworth. They unanimously presented an elaborate scheme of reconstruction. The Government of India, which then included Sir Sankaran Nair, that sturdy champion of freedom and equality in the sphere of high education, expressed their approval of the report. Lord Carmichael, then

Rector of the University, added the weighty authority of his judgment and experience in favour of the recommendations. After a protracted debate, the Senate not only adopted the principle formulated in the report, but also framed Regulations with a view to carry it into immediate execution. Here it is my pleasant duty to acknowledge that Your Excellency, on assumption of the office of Rector, approached the problem with an open mind, and after independent examination, arrived at the conclusion that the new system proposed to be inaugurated by the Senate was sound in principle and merited support. The result was that on the 26th June, 1917, the Government of India accorded their sanction to the Regulations for Post-Graduate Teaching in various branches of Arts and Science.

This marks a new stage, a new epoch, in the history of the foundation and development of a great Teaching and Research University in Calcutta. It is needless for me, indeed, it would be unwise for me, to recall here the bitter controversies which we had to face in the course of our strenuous struggle in taking this new step forward on the way to our coveted goal. But I desire it to be remembered that the fresh advancement was a most deliberate act on the part of the Senate of this University, undertaken after prolonged discussion, approved by two successive Rectors, and finally confirmed by the Supreme Government in the land after the most careful and searching enquiry. It would, I further venture to think, be far from right to overlook or ignore the undeniable fact that the principle of co-operation between the Colleges and the University for the development of the highest instruction of the best intellects amongst the youth of Bengal, has received recognition from the University Commission as the true basis of a fruitful synthesis between a great Teaching and Research University and the Colleges included within its sphere of influence.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science.

FOR THE YEAR 1922.

No. 5.

THE 1ST APRIL, 1922.

Present:

Girischandra Bose, Esq., M.A., M.R.A.S., *in the Chair.*

Professor P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., M.I.E. (Ind.)
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Rev. J. Watt, M.A., D.D.
Professor Praphullachandra Ritter, M.A., Ph.D.
J. A. Taylor, Esq., M.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1922-23 in (1) Chemisty, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology, and also to elect not more than 3 members for the Board of Studies in Experimental Psychology, not more than 2 members for the Board of Studies in Mathematics, not more than 6 members for the Board of Studies in Geography and not more than 3 members for the Board of Studies in Teaching.

The following gentlemen had been nominated by the members of the Faculty of Science for election to the Boards of Studies under which their names appear:

(10) Board of Studies in Chemistry.

1. Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
2. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
3. Girischandra Bose, Esq., M.A., M.R.A.S.
4. Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
5. Prof. P. J. Brühl, D.Sc, I.S.O., F.C.S., F.G.S.
6. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7. Jnanchandra Ghosh, Esq., M.A.
8. Rai Kumudinikanta Banerjee, Bahadur, M.A.
9. Rev. J. Watt, M.A., D.D.
10. Rai Bhupatinath Das, Bahadur, M.A., B.Sc.

The University of Calcutta & Acharya P C.Ray 1906-1944

The Chairman thereupon declared that the following gentlemen had been duly elected to the Boards under which their names appear :—

(10) *Board of Studies in Chemistry.*

Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Girischandra Bose, Esq., M.A., M.R.A.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A,
Rev. J. Watt, M.A., D.D.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. Thomson, Esq , M.A., Ph.D.

(11) *Board of Studies in Mathematical and Experimental Physics.*

Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Prof. C. E. Cullis, Ph.D., D.Sc.
Girischandra Bose, Esq., M.A., M.R.A.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Jnanchandra Ghosh, Esq., M.A.
E. P. Harrison, Esq., Ph.D., F.R.S E., F.(Inst.)P.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.
Rai Bhupatinath Das, Bahadur, M.A., B.Sc.
D. B. Meek, Esq., M.A., D.Sc., F.R.Met.S.
Rai Abinaschandra Bose, Bahadur, M.A.
J. A. Taylor, Esq., M.Sc.

(12) *Board of Studies in Zoology.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Kedarnath Das, Esq., C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. C. A. Bentley, M.B., D.P.H., D.T.M.H.

(13) *Board of Studies in Geology and Mineralogy.*

Girischandra Bose, Esq., M.A., M.R.A.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Minutes of the Senate.

FOR THE YEAR 1922.

No. 8.

THE 8TH APRIL, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *Vice-Chancellor, in the Chair.*

Heramtmohandra Maitra, Esq., M.A.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D., M.L.A.
Rai Chunilal Bose, Bahadur, M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Girischandra Bose, Esq., M.A., M.R.A.S.
Sir Asutosh Ganguli, Kt., M.A., LL.M., M.L.C.
Professor P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Satischandra Bagchi, Esq., B.A., LL.B., LL.D.
Rai Dineschandra Sen, Bahadur B.A., D.Litt.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Evan E. Biss, Esq.
Surgeon-General B. H. Deare, C.I.E., D.P.H., M.R.C.P., I.M.S.
Professor Hiralal Haldar, M.A., Ph.D.
Rev. J. Watt, M.A., D.D.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
S. Khuda Buksh, Esq., M.A., B.C.L.
The Hon'ble Mr. Justice Z. R. Zahid Suhrawardy, M.A., B.L.
Manmathanath Ray, Esq., M.A., B.L.
R. N. Gilchrist, Esq., M.A.
Professor D. R. Bhandarkar, M.A., Ph.D.
Kaminikumar Chanda, Esq., M.A., B.L.
Abdulla-al-Mamun Suhrawardy, Esq., M.A., D Litt., Ph.D., M.L.C.
K. L. Datta, Esq., M.A., F.S.S., F.E.S.
Harendracoomar Mookerjee, Esq., M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L.
Aga Md. Kazim Shirazi.
Hassan Suhrawardy, Esq., F.R.C.S.I., L.M., M.D., M.L.C.
Asutosh Sastri, Esq., M.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rev. A. E. Brown, M.A., B.Sc.
Miss G. M. Wright.
Jatindranath Maitra, Esq., M.B., M.L.C.
Pramathanath Nandi, Esq., M.D.
Khagendranath Mitra, Esq., M.B., M.L.A.
Prabhutosh Banerjee, Esq., M.A., A.M.I.E., (Ind.)

6. **Rev. Dr. G. Howells** placed before the Senate the following letter from Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., and moved that the offer made by him on the conditions specified in his letter be thankfully accepted :—

UNIVERSITY COLLEGE OF SCIENCE,
92, Upper Circular Road.
Calcutta 24th March, 1922.

MY DEAR SIR ASUTOSH,

On your invitation, I joined the College of Science from its very inception and I have always tried my best to foster the spirit of research among those among whom I have been working. It is now my desire to place at the disposal of the University a sum of Rs. 10,000 representing the best part of my life's saving for founding an annual prize to be awarded for the best piece of research work in Chemistry, Pure or Applied, by any student working in the College of Science. The prize shall be open to competition among all graduates of this University. The Board of adjudicators for the prize shall be constituted as follows :—

Palit Professor of Chemistry.
Ghose Professor of Chemistry.
Ghose Professor of Applied Chemistry.
Singh Professor of Chemistry.

One other expert nominated annually by the other four members of the Board.

The award shall be made by the Syndicate on the recommendation of the Board of Adjudicators.

The prize shall consist of a gold medal of the value of Rs. 100 and Rs. 500 in cash.

The prize is to be called the "Nagarjuna" prize after the great Indian Chemist of that name, whose accurate observations and painstaking investigations have justly elicited the applause of succeeding generations, and who, as described in my History of Hindu Chemistry, is looked upon as the precursor of Chemical activity in this our ancient land.

If in the opinion of the adjudicators the work in any year is not up to the mark, the prize should be withheld for that particular year and would be awarded on any subsequent occasion.

Yours sincerely,
P. C. RAY.

The University of Calcutta & Acharya P.C.Ray 1906-1944

He said that no words of his were necessary to indicate their pleasure that they had a man like Dr. P. C. Ray coming forward to help the University in that way. He hoped that they should have still greater pleasure when men of bigger wealth would come forward with larger sums of money to help the University.

Mr. Girischandra Bose, in seconding the motion, observed that it was not so much the amount of the gift as the heart from which it flows, that should be taken as the keynote of the gift.

The motion was carried.

7. **Mr. Ramaprasad Mookerjee** moved that the following graduates be permitted to appear at the next M.A or M.Sc. Examination, as the case might be, as non-collegiate students :—

M.A. Examination.

Name.	Qualification.	Subject.
O. Lakshminarasimham	... B.A. 1908	... English
L. A. Krishna Iyre	.. B.A. 1913	.. Anthropology
M. V. Narasinhaswami	. B.A. 1911	. Chemistry
Sailendranath Mitra	.. B.A. 1918	... English (A)
Sureschandra Banerjee	.. B.A. 1911	... "
Mrityunjay Bhattacharyya	.. B.A. 1918	... History
Bijaychandra Dasgupta	B.A. 1916	.. Economics (B)
Sudhirchandra Chakrabarti	... B.A. 1920	.. English (A)
M. K. Sivasankar Rao	.. B.A. 1918	... Geology
Jatindramohan Bhattacharyya	B.A. 1919	... Economics (B)
H. L. Phillips ...	.. B.A. 1919	.. English
Durgadas Ray ...	... B.A. 1918	... English (A)

M.Sc. Examination.

Name.	Qualification.	Subject.
Indramani Mahanti	... B.Sc. 1918	... Chemistry
Sudhansusekhar Datta	... B.Sc. 1915	... Pure Mathematics

Mr. Manmathanath Ray seconded the motion, which was carried.

8. **Mr. Ramaprasad Mookerjee** moved that the following students, whose percentage of attendance at lectures had fallen short of the prescribed minimum, owing to illness or other unavoidable circumstances, be permitted to appear at the ensuing I.Sc., B.A., or B.Sc. Examination, as the case might be, as non-collegiate students :—

I.Sc.

Md. Ashraff Hossain, Jaminikumar Basu.

B.A.

Amiyakanti Das.

B.Sc.

Labanyakumar Bhaduri

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1922.

No: 15.

THE 29TH JULY, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., Vice-Chancellor, *in the Chair.*

Mahendranath Ray, Esq., C.I.E., M.A., B.L.,

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Prof. H. Stephen, M.A., D.D., Ph.D.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Girischandra Bose, Esq., M.A., M.R.A.S.

Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.

Prof. P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.

Jnanchandra Ghosh, Esq., M.A.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Satischandra Bagchi, Esq., B.A., LL.B., LL.D.

Rai Dineschandra Sen, Bahadur, B.A., D.Litt.

Jnanranjan Banerjee, Esq., M.A., B.L.

Brajmohan Majumdar, Esq., M.A., B.L.

Jaminibhushan Ray, Esq., Kaviratna, M.A., M.B.

Prof. Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev. J. Watt, M.A., D.D.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E.

S. Khuda Bukah, Esq., M.A., B.C.L.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

R. N. Gilchrist, Esq., M.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Kaminikumar Chanda, Esq., M.A., B.L.

Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S.

A. H. Harley, Esq., M.A.

Nawab A. F.M. Abdur Rahman, Khan Bahadur.

Rai Abinaschandra Bose, Bahadur, M.A.

Harendracoomar Mookerjee, Esq., M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L.

Rev. E. C. Dewick, M.A.

Asutosh Sastri, Esq., M.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

J. A. Taylor, Esq., M.Sc.

Rev. A. E. Brown, M.A., B.Sc.

Egerton Smith, Esq., M.A.

Khan Bahadur Shams-ul-Ulama Maulvi Hidayet Hussain.

Jatindranath Maitra, Esq., M.B., M.L.C.

Pramathanath Nandi, Esq., M.D.

Khagendranath Mitra, Esq., M.A., M.L.A.

The Hon'ble Sir Abdur Rahim, Kt., M.L.C.

1. **Mr. Manmathanath Ray** moved that the following recommendations of the Board of Management for the Sir Rashbehary Ghose Endowment, dated the 15th July, 1922, be adopted :—

(1) That Nikhilranjan Sen, Esq., D.Sc. University Lecturer in the Department of Applied Mathematics (then in Germany on leave) be appointed Sir Rashbehari Ghosh Professor of Applied Mathematics for a term of five years, from 1st September, 1922.

(2) That an allowance of Rs. 500 a month be sanctioned for the Professor-elect for one year from 1st September, 1922, to enable him to carry on special study in Europe during such period.

He said that Dr. Sen was one of the most distinguished graduates of this University, and after a most brilliant academic career he worked as a lecturer in Applied Mathematics in the University College of Science and contributed some very valuable papers two of which had been published in the Philosophical Magazine. He was now in Germany making special investigations in Mathematical Physics and the Atomic constitution of matter. The only other candidate whose claims might have been considered in connection with this appointment was Dr. Bibhutibhushan Datta, also a D.Sc. of this University. But he had expressed a desire to the Hon'ble the Vice-Chancellor that he would become a Sanyasi.

Rai Chunilal Bose, Bahadur, seconded the motion, which was carried.

2. **Prof. P. Bruhl** moved that the following recommendation of the Governing Body of the Sir T. N. Palit Trusts, dated the 22nd July, 1922, be adopted:—

"That Sir P. C. Ray be requested to hold the Palit Chair of Chemistry for a term of five years longer, in as much as his continuance as Palit Professor of Chemistry, was, in the opinion of the Governing Body, necessary in the interests of Research."

Dr. Bruhl added that Sir P. C. Ray by his research on mercurous nitrite opened a long series of investigations on the difficult subject of nitrites, both inorganic and organic, on which subject he may be rightly said to be the leading authority. Later on he and some of his students engaged in other chemical researches of equal importance. Even greater are his services to Chemistry in general and the Chemical Department of the Calcutta University owing to his having created a School of Chemistry and instilled his own enthusiasm into his research

students, who by their original research have secured the appreciation of the chemical world of the West. Sir P. C. Ray's retirement would be a heavy loss to the Post-Graduate Department of the Calcutta University.

Rai Chunilal Bose, Bahadur, seconded the motion.

The Hon'ble the Vice-Chancellor: When Dr. Ray intimated to me that in accordance with the Rules of the 30th January 1914 his time would be up this year, I told him plainly that I would be the last man to accept his resignation. I have told him also that the Senate would unanimously hold the same view. The founder of the modern school of Chemistry would not be let off so easily.

The motion was put to the vote and carried.

3. **Prof. P. Brühl.** moved that the following recommendation of the Board of Management of the Sir Rashbehary Ghosh Endowment, dated the 22nd July 1922, be adopted :—

"That one of the three Ghose Travelling Fellowships available for the year 1922-23, each valued at Rs. 5,000, be awarded to Dr. Sisirkumar Mitra, D.Sc., University Lecturer in Physics (then in Paris), the Fellowship to be held according to the following general scheme submitted by him :—

University of Paris.

1922-October-December	...	Work on the establishment of Standard Wavelengths for Spectroscopic Measurements.

University of Berlin.

1923 January-April	...	Study of the application of Electron tubes for Physical Research at Technische Hochschule.

University of Heidelberg.

1923 April-September	...	Study of Technique of the Positive Ray Analysis with Professor Lenard.

Dr. Brubl said that one of the most important problems, both theoretical and practical, that agitated not only physicists and chemists, but also biologists at the present moment was the structure of the Atom. This problem has been led up to during the last forty years by the discovery of the Roentgen rays, of the cathode and canal rays, of radio-activity and others. The rapid advance which has taken place in this direction is due to

not represented on the Bengal Legislative Council. He hoped that the day was not far distant when the Chancellor would rise equal to the occasion and remove this want, so that matters relating to the University might be properly heard and discussed in the Legislative Council and the University might be represented by people who had a living knowledge of the University and were in actual touch with its affairs and could therefore adequately represent the Senate on the Bengal Legislative Council.

The motion was put to the vote and carried.

19. The Senate then proceeded to consider the following report of the Committee appointed by them on the 18th February, 1922 :—

REPORT.

We, the members of the Committee appointed by the Senate on the 18th February, 1922, to consider and report on the resolution of the Bengal Legislative Council regarding the formation of a Board of Education for the superintendence of Secondary Schools, general and vocational, beg to submit the following report :—

In connection with the proposed formation of the Secondary Board, the following considerations should be kept in view :—

I. Whatever may be the utility of the creation of a Secondary Board for High Schools from a theoretical standpoint, no practical man can acquiesce in the formation until and unless the composition of the Board is definitely ascertained. The constitution and character of the Board will exert great influence on its working, and the University, as an academic body, must naturally lay stress upon the maintenance of the principle that educationists should have a predominant share in guiding and controlling the educational system of the country. The attitude of the University to the proposed scheme will largely depend upon the measure of recognition given to this principle.

II. The next question that comes for consideration is the relation of the University to the proposed Board. The connection between the University and the Schools—the growth of nearly three quarters of a century—is necessarily very intimate, and the University cannot agree to a proposal for the sudden breaking up of these ties without making any attempt to safeguard the interests of the University from the larger educational standpoint. The welfare of education as a whole demands

The University of Calcutta & Acharya P.C.Ray 1906-1944

that the University should be adequately represented on a Board appointed to direct the policy and superintend the work of the institutions which provide the instruction preparatory to college education. Nor would it be desirable to ignore the long and varied experience possessed by the members of the University in this connection.

III. The question of compensation due to the University for the loss that it will sustain by the proposed change is another subject for consideration. The fees realised from the Matriculation candidates constitute one of the main sources of the income of the University and it will be difficult, if not impossible, to conduct the University on its present lines and particularly to maintain it as a teaching body if it is not compensated for the loss.

The principle of a fundamental unity in national education should never be lost sight of in the re-organisation and re-construction of the existing system of educational administration.

In the creation of a new system, this unity should be the main principle to be kept in view and every attempt should be made to maintain and develop it by securing organic co-ordination between its component parts.

Education in all grades should be looked upon as an organic whole and to try to remodel one part of this complex organism to the exclusion of other interrelated and interdependent parts, would defeat the main object of the attempted reform and might also result in unforseen and dangerous consequences.

In the resolution of the Council there is nothing to indicate the attitude of the Council in regard to the points mentioned above. We, therefore, advise the Senate to acquiesce in the formation of a Board of Education for Secondary Schools only on the distinct understanding that the conditions laid above are definitely fulfilled.

Nilratan Sircar.
Herambachandra Maitra.
G. C. Bose.
P. Brühl.
J. R. Banerjea.
J. Watt.
George Howells.

I am in general agreement with the conclusions arrived at in the report.

A. SUHRAWARDY.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Mr. Mahendranath Ray, C.I.E., M.A., B.L., moved :—

That a letter be addressed to the Government of Bengal requesting that the Senate may be furnished with information on the following points :—

(I) Whether compensation will be made to the University for loss of income which must result from the creation of a Board of Secondary Education for the exercise of control over secondary schools and the conduct of the Matriculation Examination,

(II) How, when, on what principle and by which Body will the compensation be determined.

(III) Will the payment of the amount assessed as compensation be contingent upon the vote of the Legislative Council from year to year, or will it be made a fixed perpetual grant—if the latter, by what method,

(IV) How and in what proportion will the University be represented on the Board of Secondary Education,

and that pending the receipt of the reply further consideration of the matter be postponed.

He said that the Government informed the University that they would welcome the views of the University on the resolution with reference to the formation of intermediate and secondary board adopted by the Bengal Legislative Council. Accordingly the Senate appointed a committee and the report of the committee had been circulated. The committee was of opinion that the University should be adequately represented on the board. The committee also referred to the question of compensation for the loss that would be sustained owing to the proposed changes, as the fees realised from the matriculation candidates would no longer be forthcoming. It appeared that compensation for loss and the question of adequate representation and some guarantee or assurance about financial aid were needed. The resolution which had been placed before the Senate recommended that the Government might be requested to furnish the Senate with information upon these points, and pending the reply of the Government, further consideration might be postponed. That appeared to be the reasonable course to follow.

Prof. Praphullachandra Mitter seconded the motion which was carried.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.*

J. C. GHOSH, *Registrar.*

REPORT

We, the members of the Committee appointed by the Senate on the 13th March, 1922, to draw up a statement on the points arising in connection with the speech delivered by the Minister for Education, Bengal, in the Bengal Legislative Council on the 1st March, 1922, have the honour to submit our report.

Amongst the various points which require to be considered in connection with the speech the foremost place must be assigned to the question of the position of the University in relation to the Government, and we will accordingly examine it in the first place.

Constitution

The University of Calcutta is a Corporation created by Statute, and its privileges and obligations must be determined by reference to the statutory provisions which will be found set out in Act II of 1857 (the Act of Incorporation) and Act VIII of 1904 (the Indian Universities Act). These enactments have been amended from time to time and, in their amended form, are printed in the volume of Regulations published by the University.

The constitution of the Body Corporate of the University is defined in Section 1 of the Act of Incorporation and Section 4 of the Indian Universities Act. The Body Corporate consists of

(*a*) the Chancellor,
(*b*) the Vice-Chancellor,
(*c*) the Ex-officio Fellows,
(*d*) the Ordinary Fellows,
  (*i*) elected by Registered Graduates,
  (*ii*) elected by the Faculties, and
  (*iii*) nominated by the Chancellor.

These persons constitute the Senate of the University.

Section 8 of the Act of Incorporation which authorises the Chancellor, Vice-Chancellor and Fellows to superintend the affairs of the University is in the following terms:

"*The Chancellor, Vice-Chancellor and Fellows, for the time being, shall have the entire management of and superintendence*

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR, 1922.

No 16

THE 26TH AUGUST. 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S B., *Vice-Chancellor, in the Chair.*

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Horambachandra Maitra, Esq., M.A.

Adharchandra Mookerjee, Esq., M.A., B.L.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Professor H. Stephen, M.A., D.D., Ph.D.

Kedarnath Das, Esq., C.I.E., M.D.

Girischandra Bose, Esq., M.A., M.R.A.S.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

Professor P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G S.

Jnanchandra Ghosh, Esq., M.A.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Rai, Dineschandra Sen, Bahadur, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Jnanranjan Banerjea, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

F. W. Sudmorsen, Esq., B.A.

Jaminibhushan Roy, Esq., Kaviratna, M.A., M.B.

Professor Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev. G. Howells, M.A., B. Litt., B.D., Ph.D.

Rai Bhupatinath Das, Bahadur, M.A., B.Sc.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

Aparbachandra Datta, Esq., B.A.

Professor, Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., R. N. Gilchrist, Esq., M.A.

Professor D. R. Bhandarkar, M.A., Ph.D.

Kaminikumar Chanda, Esq., M.A., B.L.

Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S.

Nawab A. F. M. Abdur Rahman, Khan Bahadur.

Rai Abinaschandra Bose, Bahadur, M.A.

Pramathanath Banerjee, Esq., M.A., B.L.

Khan Bahadur, Maulvi Ahsanulla, M.A., M.R.A.S.

Rev. E. C. Dewick, M.A.

The Hon'ble Sir A. R. Murray, Kt., C.B E.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Egerton Smith, Esq., M.A.

Jatindranath Maitra, Esq., M.B., M.L.C.

Pramathanath Nandi, Esq., M.D.

Khagendranath Mitra, Esq., M.A., M.L.A.

Prabhatnath Banerjee, Esq., M.A.

The University of Calcutta & Acharya P C.Ray 1906-1944

Mr. Jnanranjan Banerjea then moved that the committee be constituted as follows :—

The Hon'ble the Vice-Chancellor, *Chairman*.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
Prof. Hiralal Haldar, M.A., Ph.D., and
The Mover.

Mr. Manmathanath Ray seconded the motion which was carried.

On the motion of Mr. Jnanranjan Banerjea, seconded by Mr. Manmathanath Ray, it was resolved that the quorum should consist of three members.

20. The Registrar placed before the Senate the following letter from the Secretary to the Government of Bengal, No. 1628, dated the 8th August, 1922, on the subject of certain information asked for in this Office letter No. G-13, dated the 1st of August, 1922, regarding the Resolution of the Bengal Legislative Council for the creation of a Board of Education for the superintendence of Secondary Schools, General and Vocational :—

No: 1628 Edn.

GOVERNMENT OF BENGAL, EDUCATION DEPARTMENT.
EDUCATION BRANCH.

FROM
S. W. GOODE, ESQ., I.C.S.,
Secretary to the Government of Bengal,

TO
THE REGISTRAR,
University of Calcutta.

THE HON'BLE MR. P. C. MITTER, C.I.E.,
MINISTER IN CHARGE,
Calcutta, the 8th August, 1922.

SIR,

I am directed to acknowledge the receipt of your letter No. G-13, dated the 1st August, 1922, asking for certain information regarding the Resolution of the Bengal Legislative Council for the creation of a Board of Education for the Superintendence of the Secondary Schools, General and Vocational. The reply will be sent as soon as the matter is considered by Government.

I have etc., etc.,
J. N. Roy,
For Secretary to the Government of Bengal.

ORDERED—
To be recorded.

21. Sir Nilratan Sircar placed before the Senate for consideration, the following letter from the Secretary to the Government of Bengal, Education Department, No. 1643, dated the 9th

August, 1923, on the subject of the reconstruction of the University. :—

No. 1043-Edn.

GOVERNMENT OF BENGAL.

EDUCATION DEPARTMENT.

Education Branch.

From

S. W. GOODE, Esq., I.C.S.,

SECRETARY TO THE GOVERNMENT OF BENGAL,

To

THE REGISTRAR, UNIVERSITY OF CALCUTTA.

The Hon. Mr. P. C. Mitter,

C.I.E., Minister-in-charge.

Calcutta the 9th August, 1922.

SIR,

I am directed to address you on a matter connected with University reconstruction. Action along the lines laid down in the University of Calcutta Commission Report has not been possible owing to financial conditions. This Government has made representations to the Government of India in the matter, and it is now necessary to undertake certain preliminary work in case circumstances enable Government to contemplate legislation in the near future. The opinion of the University is in this letter invited regarding the constitution that should be given to the Senate in such reconstruction.

2. Reference is invited in this connection to paragraphs 22 and 24 of Chapter 27 of the Commission's Report.

3. Reference is also invited to discussions in the Council of State and the Bengal Legislative Council. In the Council of State the Hon'ble Mr. Bhargre moved on February 23, 1921 that "this Council recommends to the Governor-General in Council to take early steps to introduce legislation in order to place the Universities of India on a more democratic basis." The Hon'ble Mr. Shafi in summing up the discussion pointed out that Provincial Legislative Councils had absolute power to deal with such matters and undertook to communicate to Local Governments the proceedings of the Council on the Resolution, which was thereupon withdrawn.

In the Bengal Legislative Council Babu Jatindramohan Basu moved on 4th July, 1921, "that this Council recommends to the Government that steps be taken to effect the following changes in the Calcutta University, namely :—

(a) that at least, 80 per cent. of the fellows of the University should be elected.

(b) that the registered graduates of the University should elect at least 60 per cent. of the fellows; and

(c) that the fee for enrolment on the list of registered graduates should be Rs. 2, and the annual subscription of registered graduates should be Rs. 2 and Babu Rishindranath Sarkar moved by way of amendment the recommendation that

(a) at least 80 per cent. of the fellows of the University should be elected.

(b) that all persons who have taken the degrees of doctors and masters in any faculty and those who have graduated in any faculty not less than 7 years before the date of election shall be entitled to elect 60 per cent. of the fellows;

(c) that no fee whatever, be charged from any graduate who is entitled to take part in such election.

In replying the Hon'ble Mr. P. C. Mitter informed the Council that the views of the House would receive the utmost consideration when the time for legislation came, and that in framing legislation he would be prepared to accept the democratic principle underlying the motion and

amendment, that Government would take early steps to modify the constitution of the University in such a way as to make it thoroughly representative of public opinion in Bengal and of various interests which the University has to serve, that he was prepared to give an effective proportion of the representation to graduates, but in framing the Bill, must safeguard the various teaching interests and the different courses of study *e.g.*, medical, engineering etc. The resolution was then carried in this form *viz.*, that "this Council recommends to Government that steps be taken to effect the following changes in the Calcutta University, namely: —

(*a*) that at least 80 per cent. of the follows of the University should be elected.

(*b*) that all persons who have taken the degrees of doctors and masters in any faculty not less than seven years before the date of election shall be entitled to elect 80 per cent. of the follows.

(*c*) that no fee whatsoever be charged from any graduate who is entitled to take part in such election.

The Government of Bengal (Ministry of Education) will be pleased to receive the views of the Hon'ble the Vice-Chancellor and the Senate on this matter; as well as on the line of legislation which in their opinion should be adopted for introducing an elective basis in the University with due regard to proper academic interests at an early date.

A copy of each debate referred to is sent herewith. It is requested that they may be returned when done with.

I have etc., etc.,
J. N. RAY,

For Secretary to the Government of Bengal.

He said that it was one of the most important items of business on the Agenda. The opinion of the University regarding the constitution of the future Senate had been invited. The Senate once recorded their opinion in connection with the consideration of the Sadler Commission Report. It appeared that at the present moment there were some fresh reasons for inviting their opinion A resolution was accepted by the Bengal Legislative Council in which it was said that 80 per cent. of the members of the Senate should be elected. This was accepted without any reference to the different functions of the University. After very careful consideration for nearly two years the University Commission came to certain conclusions regarding the future constitution of the Governing Body. They advised the splitting up of the functions of this Body and the creation of an academic council for the management of the academic side and the consideration of academic questions. They also advised the formation of a Court whose power partook more or less of a function of a general characetr. But it appeared that the Bengal Legislative Council was not satisfied with it. They wanted that the Senate should have 80 per cent of elected members. This was a very intricate question and he did not think that it would be justifiable on his part to pass any opinion as to whether such a scheme would be feasible or not from the academic point of view. He therefore moved that a committee of 12 members should be appointed to consider the question thoroughly and submit a report in due course.

The University of Calcutta & Acharya P C Ray 1906-1944

Rai Chunilal Bose, Bahadur, seconded the motion.

The Hon'ble the Vice-Chancellor:—It is very easy to make proposals, but very difficult to foresee their effect. After they are carried into execution you cannot very well define the constitution of the body till you know what duties are to be assigned to it. The members of the Legislative Council, so far as I have been able to gather from the debate, did not quite see the gravity of the situation and the complexities involved. We ought to be thankful to the Government for giving us an opportunity for expressing our opinion upon the matter. I would suggest that a very strong committee should be appointed to consider the matter in a comprehensive way,—what body there should be in the new University and what function should be assigned to it.

The motion was carried.

Sir Nilratan Sircar then moved that the Committee be constituted as follows:—

The Hon'ble the Vice-Chancellor, *Chairman.*
Herambachandra Maitra, Esq., M.A.
Sir Devaprasad Sarvadhikari, Kt., C.I.E, M.A., LL.D.
Girischandra Bose, Esq., M.A., M.R.A.S.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rev. Dr. G. Howells, M.A., Ph.D., B.Litt., B.D.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.L.E. (Ind.).
Rev. Dr. W. S. Urquhart, M.A., D.Litt.
R. N. Gilchrist, Esq., M.A.
Dr. A. Suhrawardy, M.A., D.Litt., Ph.D., M.L.C.
Sir Alexander Murray, Kt., O.B.E. and
The Mover.

Rai Chunilal Bose, Bahadur, seconded the motion which was carried.

On the motion of Sir Nilratan Sircar, seconded by Rai Chunilal Bose, Bahadur, it was decided that seven members should form a quorum.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.* **J. C. GHOSH,** *Registrar.*

The University of Calcutta & Acharya P C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1922.

No. 19.

THE 11TH NOVEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S. F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

Mahendranath Ray, Esq., C.I.E., M.A., B.L.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Sir Devaprasad Sarvadhikari, Suriratna, Vidyaratnakar, Kt., C.I.E., M.A., LL.D., M.L.A.

Adharchandra Mookerjee, Esq., M.A., B.L.

Prof. H. Stephen, M.A., D.D., Ph.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Girischandra Bose, Esq., M.A., M.R.A.S.

Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S. F.G.S.

Rai Kumudinikanta Banerjee, Bahadur, M.A.

Debendranath Mallik, Esq., Sc.D., B.A., F.R.S.E.

Rai Dineschandra Sen, Bahadur, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Jnanranjan Banerjea, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

E. E. Biss, Esq.

Jamini Bhushan Ray, Esq., *Kaviratna*, M.A., M.B.

Rev. Father F. X. Urquhart, S.J.

Prof. Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

Maulvi Muhammad Irfan, M.A.

Bidhanchandra Ray, Esq., B.A., M.D., F.R.C.S., M.R.C.P.

Rev. W. S. Urquhart, M.A., D.Litt.

The Hon'ble Mr. Justice Z. R. Zahid Suhrawardy, M.A., B.L.

Manmathanath Ray, Esq., M.A., B.L.

R. N. Gilchrist, Esq., M.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Kamalkumar Chanda, Esq., M.A., B.L.

Rai Abinaschandra Bose, Bahadur, M.A.

Harendracoomar Mookerjee, Esq., M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L.

Aga Muhammad Kazim Shirazi.

Lt. Col. H. A. Cameron, C.I.E., R.E., M.I.E. (Ind.).

Asutosh Sastri, Esq., M.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rev. A. E. Brown, M.A., B.Sc.

Egerton Smith, Esq., M.A.

J. C. Coyajee, Esq., B.A., LL.B.

Khan Bahadur Shams-ul-Ulama Maulvi Hidayet Husain, M.A.

Jatindranath Maitra, Esq., M.B., M.L.C.

Pramathanath Nandi, Esq., M.D.

Khagendranath Mitra, Esq., M.A., M.L.A.

3. **Prof. P. Brühl** moved that the Proceedings of the Council of Post-Graduate Teaching in Science, dated the 9th September, 1922, be confirmed.

Mr. Jnanranjan Banerjea seconded the motion which was carried.

4. **Prof. P. Brühl** moved that the Proceedings of the Governing Body of the University College of Science, dated the 14th and the 21st of September, 1922, be confirmed.

Mr. Kaminikumr Chanda seconded the motion which was carried.

5. **The Hon'ble the Vice-Chancellor** placed before the Senate the following letter from Sir Praphullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S., Palit Professor of Chemistry, who had been re-appointed Palit Professor for a further period of five years :—

"University College of Science,
Department of Chemistry,
92, Upper Circular Road.

Calcutta, the 1st November, 1922

To

THE REGISTRAR, CALCUTTA UNIVERSITY,

DEAR SIR,

I beg to request you to convey to the Governing Body of the College of Science my sincere thanks for the extension of my services on full pay for a period of five years. But as I have completed my 60th year I feel I cannot accept any remuneration, and would therefore request you to utilise my salary from the month of September last onwards for the furtherance of the department of Chemistry (both general and applied), or for such other purpose as the Vice-Chancellor and the Governing Body may deem fit.

Thanking you again,
Yours truly,
P. C. RAY."

He said that the Senate must record its gratitude to Sir P. C. Ray for the splendid self-sacrifice. On the completion of his sixtieth year, he tendered his resignation. But the rules provided that his term might be continued if it was thought necessary that in the interest of research he should continue his services to the University. The Governing Body of the University College of Science was unanimously of opinion that he should be asked to extend his term by 5 years more. This met with the unanimous acceptance of the Senate. When this was communicated to him he came forward and said that he should take no salary and his salary would be applied in furtherance of the cause of Chemistry, his subject. Nothing

could be more dignified. He asked the Senate to record its deep gratitude to Sir P. C. Ray.

The motion was carried with acclamation.

6. The Registrar reported that His Highness the Maharaja of Nepal had supplemented by Rs. 1,000 the Sir Rashbehary Ghose Travelling Fellowship granted by the Senate to Mr. Prabodhchandra Bagchi, University Lecturer in the Department of Ancient Indian History and Culture, who had proceeded to France *via* Indo-China, China, Japan and Siberia, with Prof. Sylvan Levi.

The Hon'ble the Vice-Chancellor proposed that the thanks of the Senate be conveyed to his Highness the Maharaja of Nepal.

The proposal was unanimously accepted.

7. **Mr. Manmathanath Ray** moved that the following candidates, who had passed the Matriculation Examination in 1920, be permitted to appear at the I.Sc. Examination in 1923 as non-collegiate students :—

Miss Glory Manorama Ghosh.
„ Premlata Ghosh.

Mr. Jnanranjan Banerjea seconded the motion which was carried.

8. **Mr. Ramaprasad Mookerjee** moved that the admission of the following candidates to the M.A. or M.Sc. Examination, as the case might be, as non-collegiate students, be sanctioned—

Name.	Qualifications.	Examination.	Subject.	Year.
Dhirendrachandra Sen ...	B.A., 1910 ...	M.A.	Philosophy.	1922.
Pareschandra Das ...	B.A., 1916 ...	„	Indian Vernaculars.	„
Nareschandra Sen ...	B.A., 1917 ...	„	English.	„
Chandidas Chakrabarti ...	B.A., 1919 ...	„	History.	„
Jatindranath Sengupta ...	Was permitted to appear at the M.Sc. Examination in 1921 but could not appear.	M.Sc	Pure Mathematics	„
Upendranath Biswas ...	B.A., 1916 ...	M.A.	Indian Vernaculars.	„
Nareschandra Sengupta ...	„ ...	„	English.	„
Mg. Thaa Tin ...	B.A., 1914 ...	„	Philosophy	1923.
Saratchandra Sarkar ...	B.A., 1918 ...	„	English.	1922.
Mahadev Singh Sarma	B.A., 1918 ...	M.A.	Indian Vernaculars.	1922.
Gangapati Singh ...	was permitted to appear in Sanskrit.	M.A.	do	„
Kanailal Barat ...	B.A., 1912 ...	„	English ...	„
Meol Chand ...	B.A. (Allahabad) 1919.	„	„ ...	1923

of an eminent British statesman. A British statesman on a particular occasion pointed out that when only one aspect of a matter was considered, and the matter was not considered comprehensively, a right solution of the matter could not be arrived at. That was how the people of a particular class unfortunately always looked at political problems that came up before them. They considered only particular aspects of them instead of considering them in all their bearings. He was afraid Government was doing the same thing. Lastly the report made another point clear. The question with which the University was dealing was a matter of educational interest, and it required handling by educational experts. But did Government take the suggestions of educational experts? Government said that the Bengal Legislative Council had not sanctioned the Senate's proposals. What were things coming to? The educational horizon of every body was not necessarily wide. A few moths ago views were expessed about education by people in the Legislative Council of Bengal who could not be regarded as specialists in educational matters. Those views were narrow and illiberal. Mr. Banerjea requested that the Senate should adopt the report submitted by the Committee.

Mr. Manmathanath Ray seconded the motion which was carried.

24. **Rev. Dr. W. S Urquhart** moved that the following report of the Committee appointed by the Senate on the 26th of August, 1922, to consider a letter from the Government of Bengal on the subject of the Reconstruction of the University (in pursuance of a resolution carried in the Bengal Legislative Council) be adopted.

PRELIMINARY REPORT

We, the members of the Committee, appointed by the Senate on the 26th August, 1922, to consider a letter from the Secretary to the Government of Bengal, Education Department, No. 1643, dated the 9th August, 1922, on the subject of the Reconstruction of the University, have the honour to submit the following preliminary report.

For convenience of reference, the letter is set out here :

No. 1643-Edn.

GOVERNMENT OF BENGAL.

EDUCATION DEPARTMENT.

Education Branch.

FROM

S. W. GOODE, Esq., I.C.S.,

SECRETARY TO THE GOVERNMENT OF BENGAL,

To

THE REGISTRAR, UNIVERSITY OF CALCUTTA.

The Hon. Mr P. C. Mitter, C.I.E., Minister-in-charge.

Calcutta, the 9th August, 1922.

SIR,

I am directed to address you on a matter connected with University reconstruction. Action along the lines laid down in the University of Calcutta Commission Report has not been possible owing to financial conditions. This Government has made representations to the Government of India in the matter, and it is now necessary to undertake certain preliminary work in case circumstances enable Government to contemplate legislation in the near future. The opinion of the University is in this letter invited regarding the constitution that should be given to the Senate in such reconstruction.

2. Reference is invited in this connection to paragraphs 22 and 24 of Chapter 27 of the Commission's Report.

3. Reference is also invited to discussions in the Council of State and the Bengal Legislative Council. In the Council of State, the Hon'ble Mr. Bhargre moved on February 23, 1921, that "this Council recommends to the Governor-General in Council to take early steps to introduce legislation in order to place the Universities of India on a more democratic basis." The Hon. Mr. Shafi in summing up the discussion pointed out that Provincial Legislative Councils had absolute power to deal with such matters and undertook to communicate to Local Governments the proceedings of the Council on the Resolution, which was thereupon withdrawn.

In the Bengal Legislative Council, Babu Jatindramohan Basu moved on 4th July, 1921, "that this Council recommends to the Government that steps be taken to effect the following changes in the Calcutta University, namely :

(a) that at least, 80 per cent. of the fellows of the University should be elected.

(b) that the registered graduates of the University should elect at least 60 per cent. of the fellows ; and

(c) that the fee for enrolment on the list of registered graduates should be Rs. 2, and the annual subscription of registered graduates should be Rs. 2, and Babu Rishindranath Sarkar moved by way of amendment the recommendation that

(a) at least 80 per cent. of the fellows of the University should be elected.

(b) that all persons who have taken the degree of doctors and masters in any faculty and those who have graduated in any faculty not less than 7 years before the date of election shall be entitled to elect 60 per cent. of the fellows ;

(c) that no fee whatever be charged from any graduate who is entitled to take part in such election.

In replying the Hon'ble Mr. P. C. Mitter informed the Council that the views of the House would receive the utmost consideration when the time for legislation came, and that in framing legislation he would be prepared to accept the democratic principle underlying the motion and amendment, that Government would take early steps to modify the constitution of the University in such a way as to make it thoroughly representative of public opinion in Bengal and of various interests which the University has to serve, that he was prepared to give an effective proportion of the representation to graduates, but in framing the Bill, must safeguard the various teaching interests and the different courses of study, *e.g.*, medical, engineering, etc. The resolution was then carried in this form, *viz.*, that "this Council recommends to Government that steps be taken to effect the following changes in the Calcutta University, namely :

(a) that at least 80 per cent. of the fellows of the University should be elected ;

(b) that all persons who have taken the degrees of doctors and masters in any faculty not less than seven years before the date of election shall be entitled to elect 80 per cent. of the fellows ;

(c) that no fee whatsoever be charged from any graduate who is entitled to take part in such election.

The Government of Bengal (Ministry of Education) will be pleased to receive the views of the Hon'ble the Vice-Chancellor and the Senate on the matter ; as well as on the line of legislation which in their opinion should be adopted for introducing an elective basis in the University with due regard to proper academic interests at an early date.

A copy of each debate referred to is sent herewith. It is requested that they may be returned when done with.

I have, etc., etc.,

J. N. RAY,

For Secretary to the Government of Bengal.

Before we deal with the questions in issue, it is necessary to invite attention to one point at the very outset. The letter states that clause (*b*) of the amendment moved by Babu Rishindra Nath Sarkar to the motion of Babu Jatindramohan Basu * was in the following terms :

"That all persons who have taken the degrees of Doctors and Masters in any Faculty and those who have graduated in any Faculty not less than seven years before the date of election shall be entitled to elect sixty per cent. of the Fellows."

* In the Official Report of the Proceedings of the Bengal Legislative Council, the name of the mover is given as "Babu Jatindra Nath Basu."

The letter further states that clause (*b*) of the resolution as carried was in the following form :

"That all persons who have taken the degrees of Doctors and Masters in any Faculty not less than seven years before the date of election shall be entitled to elect eighty per cent. of the Fellows."

According to the letter, there is consequently a material variation between clause (*b*) of the amendment as moved and clause (*b*) of the resolution as carried. We originally proceeded to consider the matter on this assumption, which would make the electorate consist of a very select and limited number of persons, a position hardly consistent with "the democratic principle" underlying the motion and amendment. On examination, however, of the Official Report of the Bengal Legislative Council Proceedings, we find that clause (*b*) of the resolution as carried is not correctly reproduced in the letter and really stands as follows :

(*b*) "That all persons who have taken the degrees of Doctors and Masters in any Faculty and those who have graduated in any Faculty not less than seven years before the date of election shall be entitled to elect eighty per cent. of the Fellows." (Proceedings, Vol. III, p. 187.)

This makes a substantial difference in the position ; it implies that the electorate is to be made considerably wider than at present, for under section 7(2) of the Indian Universities Act, 1904, the electorate comprises only graduates of not less than ten years' standing, in addition to Doctors and Masters in any Faculty.

We assume that the term "Fellow" as used in the resolution has the sense which it bears in the Act of Incorporation, 1857, and the Indian Universities Act, 1904, namely, a member of the Senate which is the Body Corporate of the University. Under section 8 of the Act of Incorporation and Section 4 of the Indian Universities Act, the Senate, as the Body Corporate, consisting of the Chancellor, the Vice-Chancellor and the Fellows, whether *ex-officio* or ordinary (elected and nominated), is charged with the entire management of and superintendence over the affairs, concerns and property of the University. The preamble to the Act of Incorporation and section 3 of the Indian Universities Act, read together, show that the University is required not only to conduct examinations but also to make provision for the instruction of students and to secure the promotion of study and research. The Senate of the University, under the law as it stands, is consequently, entrusted with academic functions as well as administrative duties incident thereto. In our opinion, if the duties of the Senate continue in future to be what they are at the present moment, namely, of a dual character, a democratic principle should not be adopted

The University of Calcutta & Acharya P.C.Ray 1906-1944

in constituting that Body ; as we shall presently show, however, that principle may be applied in the reconstruction of the University on a different plan. Neither the motion nor the amendment nor the resolution as accepted by the Council furnishes any indication as to the powers and duties of the Senate under the proposed constitution, and we are convinced that the question of revision of the constitution of the Body Corporate of the University cannot be usefully considered without determination of the functions intended to be assigned thereto. Apart, however, from the subject of the precise proportion of elected Fellows on the Senate, we dissent entirely from the view formulated in clause (*c*) of the resolution that "no fee whatsoever be charged from any graduate who is entitled to take part in such election." The Indian Universities Act makes the payment of an annual fee a condition precedent to the exercise of the franchise, and we see no reason why this principle should be abandoned. On the other hand, we maintain that every graduate may be expected to take an interest in the welfare of this University and it is the duty of successful graduates materially to help their *alma mater* in the performance of her work.

Although we are emphatically of opinion that the Senate should not be reconstituted on the lines suggested in the resolution or any variation thereof, we are equally convinced that for the orderly and progressive development of the University as a powerful factor in the life of nation, it is essential that the University should be brought into intimate touch with public opinion to much larger extent than is contemplated by or has been found practicable under the existing constitution. This problem is of some complexity and was fully explored by the Sadler Commission. The Commision recommended that the University should be reconstituted on the pattern of the modern British Universities and should possess what they termed a "Court" and an "Academic Council." We are not now concerned with the question of appropriate names of the proposed new bodies ; what is of vital importance is the fundamental distinction between their functions.

With regard to the Court of the University, the report of the Sadler Commissioner makes the following recommendation :

"It is, in our judgment, essential that the Court of University should be so constituted as to represent every important element in the public opinion of the areas specially served by the University, as every kind of expert judgment whose criticisms on the University policy would be of value. A body designed to serve such a purpose should be constituted in a different way from the existing Senate. It should, in our judgment, consist in part of *ex officio* members, and in part, of elected members, the nominated element being reduced to subordinate proportions." (Report, Vol. IV, p. 384, para. 20).

The Commissioners then proceed to make detailed suggestions which, they are careful to state, represent not so much precise and definite proposals as an indication of the kind of body they desire to see constituted, in view of the fact that "the most useful functions of the Court would be those of watchfulness and criticism and of keeping the University in touch with the movements of public opinion on educational questions." (Vol. IV, p. 387.)

With regard to the Academic Council, the report of the Sadler Commission makes the following recommendation :

"The most important of the changes which we suggest in the structure of the University, is the creation of a Supreme Academic Body, whose duty it will be to direct and review all the academic work of the University, to be responsible for the standards of attainment represented by its degrees, and to initiate proposals for academic reforms and advances.....Such a body must not be too large; otherwise it will become unworkable and its discussions will be lengthy and unpractical.....On the other hand, the supreme academic body cannot be small, because it must include representatives of all the chief subjects of study in the University, Technical and professional as well as literary and scientific; because it must include, further, representatives of the colleges, at any rate, of those which form constituent elements in the Teaching University of Calcutta; and finally, because it ought to include the most distinguished teachers whose services the University enjoys. Unless it includes all these elements, its judgment will not carry the weight which it ought to carry." (Report Vol. IV, pp. 394-395.)

The Commissioners then proceed to make detailed suggestions as to the proper constitution of such an academic body and recommend that its character, functions and powers should be defined in Statutes and Ordinance's.

We are of opinion that the scheme formulated by the Commission is, in its main features as indicated above sound, and we recommend that a serious effort should be made to reconstitute the University on these lines. It would, in our opinion, be a fatal mistake to attempt to reconstitute the University with one supreme governing body which is to satisfy the requirements of the democratic principle and is also to discharge the academic functions of a great Teaching and Examining University.

In view of the opinion expressed above, we do not hesitate to record that we have read with much concern the following passage which occurs in the first paragraph of the letter from the Government, now under consideration : "Action along the lines laid down in the University of Calcutta Commission Report has not been possible owing to financial conditions." We appreciate the difficulties of the Government, but in the highest interests of educational progress, we trust that this

does not imply that the report of the Sadler Commission has been rejected. Here it is necessary to emphasise the action which has already been taken in this respect by the Senate. On the 3rd September, 1921, the following resolution was unanimously adopted by the Senate:

"That as no action has been taken by the Government of India on the basis of the resolution of the Senate, dated the 28th Frebuary, 1920 (which was communicated to the Government of India in this office letter No. 624-G, dated the 31st March, 1920), the Senate do proceed to appoint a committee of seven members, namely, four members to be nominated by the Senate and three members to be nominated by the Goverment of Bengal, to investigate the financial details of the proposed scheme for the reconstruction of the University, as indicated in the letter above mentioned."

On the 23rd September, 1921, the resolution was forwarded to the Government of Bengal with the following covering letter.

From the Registrar, Calcutta University, to the Secretary to the Government of Bengal, Education Department, No. G. 54, dated the 23rd September, 1921.

I am directed to forward the following resolution which was unanimously adopted by the Senate on the 3rd September last:

"That as no action has been taken by the Goverament of India on the basis of the resolution of the Senate, dated 28th February, 1920, (which was communicated to the Government of India in this office letter No. 624-G dated the 31st March, 1920), the Senate do proceed to appoint a Committee of seven members, namely, four members to be nominated by the Senate and three members to be nominated by the Government of Bengal, to investigate the financial details of the proposed scheme for the reconstruction of the University, as indicated in the letter above mentioned."

The Government of Bengal are no doubt aware that after the publication of the report of the Calcutta University Commission, the Government of India requested the Senate to consider the proposals made by the Commission and to express their views thereon. The recommendations of the Commission were elaborately reviewed by the Council of Post-Graduate Teaching in Arts, by the Council of Post-Graduate Teaching in Science, by a Committee of the Senate, and finally by the Senate itself. The observations of the Senate were ultimately forwarded to the Government of India. There was one fundamental matter which was much emphasised in the course of all these discussions, namely, the financial aspect of the scheme of reconstruction outlined by the Commission. The Senate was unanimously of opinion that reconstruction should not be undertaken unless the financial aspect of the scheme had been investigated and the requisite funds guaranteed. With this object in view, the Senate, on the recommendation of the Syndicate, dated 6th February, 1920, adopted the following resolution on the 28th February, 1920:

"That a letter be addressed to the Government of India, emphasising the necessity for

(1) an immediate scrutiny of the financial aspect of the proposed scheme of reconstruction of University and Secondary education;

The letter to the Government of India is printed in the appendix.

(2) an accurate ascertainment of the sums, initial and recurring, which will be needed for the purpose;

(3) a definite assurance that the requisite funds will be available for at least ten years;

and suggesting that the details be worked out by a small committee appointed by the Government of India and composed of

(i) a representative of the Government of India;

(ii) a representative of the Government of Bengal;

(iii) three representatives nominated by the Senate."

A letter was accordingly addressed to the Government of India on the 31st March, 1920, which set out in full the reasons for the action recommended by the Senate. A printed copy of this letter is enclosed for information. No reply was received from the Government of India on the subject mentioned. Since then, the Government of India have ceased to have direct connection with the University, and under altered conditions, it became necessary for the University authorities to consider what further steps should be taken in the matter. On the 8th July, 1921, the Syndicate unanimously adopted the resolution mentioned in the first paragraph of this letter which is now being forwarded for consideration of the Government of Bengal. The recommendation of the Syndicate was placed before the Senate for consideration on the 6th August, 1921, but could not be discussed as other items of business occupied considerable time. The recommendation of the syndicate thereupon came up before the Senate for consideration on the 3rd September, 1921, when upon a motion of Rev. Dr. G. Howells it was unanimously approved.

It is not necessary to reiterate the importance of a full enquiry into the financial aspect of the scheme of reform outlined by the Commission. It is indisputable that requisite funds must be guaranteed before the scheme of reconstruction of such a magnitude as has been outlined by the Commission could be taken in hand, with or without modification.

We have made enquiries, and we learn that no reply has yet been received from the Government of Bengal. We have no reason to believe that the Government do not desire to co-operate with the University in the investigation of the financial aspect of the proposals of the Sadler Commission, and of the financial arrangements which may be necessary in order to give effect to the main recommendations with or without alterations. It is well known that in the case of other Universities, such as Allahabad, Lucknow, Delhi, Rangoon and Aligarh, it has been found feasible to frame constitutions, suited to their respective needs, on the basis of the report of the Calcutta University Commission; considerable progress has also been made on the same lines in Madras. We recommend that the Government of Bengal be again invited to co-operate with the University on the lines indicated in the resolution of the Senate dated the 3rd September, 1921.

We propose to submit another report after we have examined, in further detail, the questions which must arise in connection with the reconstitution of the University on the lines of the report of the Sadler Commission. One of those questions is the relation between the Government and the

University, which is considered at length in the report of the Commission and raises issues of great gravity and complexity. It is manifest that an investigation of this character cannot be hurried and should not be perfunctorily performed. The exact scope of the reference made by the Government in the letter under consideration, is, however, not clear. In paragraph 1 of the letter we find the following passage, after the statement that action along the lines laid down in the University of Calcutta Commission Report has not been possible owing to financial conditions :

"It is now necessary to undertake certain preliminary work in case circumstances enable Government to contemplate legislation in the near future. The opinion of the University is in this letter invited regarding the constitution that should be given to the Senate in such reconstruction."

Paragraph 2 of the letter then invites reference to paragraphs 22 and 24 of Chapter XXVII of the Commission's report. No mention, it will be observed, is made of the scheme framed by the Commission for the reconstruction of the University and outlined in Chapter XXXVII of their Report; the reference is limited to two isolated passages from the historical portion of the report (Chapter XXVII, paragraphs 22 and 24) which touch upon the question of the proportion of elected Fellows on the Senate. We trust that this does not imply that the Government have already rejected the scheme framed by the Commission (a Court and an Academic Body) and have decided upon maintenance of *one* body for the discharge of both academic and administrative functions. We find, on the other hand, the following passage in a subsequent portion of the letter :

"The Government of Bengal (Ministry of Education) will be pleased to receive the views of the Hon'ble the Vice-Chancellor and the Senate on this matter; as well as on the line of legislation which, in their opinion, should be adopted for introducing an elective basis in the University with due regard to proper academic interests at an early date."

This, it will be noticed, is phrased in more comprehensive terms, as the expression used is, not "the Senate" but "the University." Taking the letter as a whole, the construction is, we think, fairly permissible that the Government desire to obtain the opinion of the University on the entire question of reconstruction and not merely upon the very limited point raised in the resolution adopted by the Council.

It will be observed that the Government of Bengal in their letter under consideration express a desire to receive the views of the Senate at an early date. Since then a reminder has been received, dated the 12th October, 1922. In this connection, it seems desirable that the relevant facts should be placed on

The University of Calcutta & Acharya P.C.Ray 1906-1944

record. The resolution was adopted by the Bengal Legislative Council of the 5th July, 1921. It was not till the 9th August, 1922, that the Government of Bengal addressed the University on the subject. Meanwhile, on the 23rd September, 1921, the University had written to the Government of Bengal, requesting their co-operation in the formation of a Committee for investigation of the financial details such as must be undertaken in connection with any practical scheme, really intended for educational reform. The letter of the 9th August, 1922, makes no reference at all to the financial aspect of any possible scheme of reconstruction. The letter was received on the 10th August, 1922, and was considered by the Syndicate on the day following. The Syndicate directed the letter to be placed before the Senate, as the views of the Senate were asked for on the subject. The Senate met on the 26th August, when they appointed the present Committee to deal with the matter. We regret that the time of the year when the University was called upon to deal with a question of such gravity was not quite opportune, in as much as during the annual holidays many members of the Senate are usually absent from town, and it is impracticable to secure their attendance at meetings. Meanwhile on the 12th October, 1922, in the middle of the holidays, a reminder was issued from Darjeeling that the views of the Senate might be forwarded at an early date. We cannot appreciate the occasion for such urgency, in view of the previous delay in taking action on the resolution passed in the Legislative Council in July, 1921, and also in view of the statement in the first paragraph of the letter, dated the 9th August, 1922, to the effect that "*it is now necessary to undertake certain preliminary work in case circumstances enable Government to contemplate legislation in the near future.*" If this was the position so recently as the 9th August, 1922, it seems necessary to enquire, what has happened in the interval. We are bound to add that as a Committee, we have no official information as to what has happened in the meantime, but it has been brought to our notice that a Bill has already been prepared embodying provisions which differ in vital respects from the proposals of the Sadler Commission.

The situation, in our opinion, is calculated to give rise to deep anxiety. It is well-known that once a legislative measure has received the approval of the Government, as such even at what is called a preliminary stage, it is hardly useful to make efforts to secure a change of policy. There would be obvious danger to the cause of education, were Government to proceed with a measure for the reconstruction of this University on a plan which has not been thoroughly examined and criticised by

The University of Calcutta & Acharya P.C Ray 1906-1944

those whose experience specially qualifies them to advise on the matters in issue; the danger would be aggravated if the measure departed materially from the recommendations of the Sadler Commission, which were based upon a comprehensive survey of the entire situation. In these circumstances, we venture to think that it would be prudent on the part of the Senate, to endeavour to arrange without delay, for interviews by small deputations with the various authorities concerned in order to explain the situation fully to them from the point of view of the University.

ASUTOSH MOOKERJEE.
NILRATAN SIRKAR.
HERAMBACHANDRA MAITRA.
GIRISCHANDRA BOSE.
P. C. RAY.
GEORGE HOWELLS.
T. H. RICHARDSON.
W. S. URQUHART.
R. N. GILCHRIST.
ALEX. R. MURRAY.

The 3rd November, 1922.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1922.

No. 20.

THE 18TH NOVEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

Mahendranath Ray, Esq., C.I.E., M.A., B.L.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Herambachandra Maitra, Esq., M.A.

Adharchandra Mookerjee, Esq., M.A., B.L.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Professor H. Stephen, M.A., D.D., Ph.D.

Professor C. E. Cullis, Ph.D., D.Sc.

Girischandra Bose, Esq., M.A., M.R.A.S.

Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.

Professor P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Debendranath Mallik, Esq., Sc.D., B.A., F.R.S.E.

Rai Dineschandra Sen, Bahadur, B.A., D.Litt.

Jnanranjan Banerjee, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Jamini Bhushan Ray, Esq., Kaviratna, M.A., M.B.

Professor Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev G. Howells, M.A., B.Litt., B.D., Ph.D.

T. O. D. Dunn, Esq., M.A., D.Litt.

S. Khuda Baksh, Esq., M.A., B.C.L.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

Rev. W. S. Urquhart, M.A; D.Litt.

Professor Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

R. N. Gilchrist, Esq., M.A.

Professor D. R. Bhandarkar, M.A. Ph.D.

Kaminiknmar Chanda, Esq., M.A., B.L.

Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S.

Rai Abinaschandra Bose, Bahadur, M.A.

Pramathanath Banerjee, Esq., M.A., B.L.

Hassan Suhrawardy, Esq., M.D., F.R.C.S.I., L.M., M.L.C.

Asutosh Sastri, Esq., M.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Professor Abanindranath Tagore, C.I.E., D.Litt.

Jatindranath Maitra, Esq., M.B., M.L.C.

Pramathanath Nandi, Esq., M.D.

Khagendranath Mitra, Esq., M.A., M.L.A.

Prabhatnath Banerjee, Esq., M.A., A.M.I.E.

The Senate met, as convened by the Hon'ble the Vice-Chancellor under Section 3, Chapter I, of the Regulations, for the consideration of the following requisition :

"To

THE VCE-CHANCELLOR,

CALCUTTA UNIVERSITY.

Calcutta, the 14th November, 1922.

DEAR SIR,

We find that the Bengalee in its issue of this morning has reproduced an article on this University from the *Times Educational Supplement*, which contains an attack upon the administration of the University, based on the letter addressed to this University by the Government of Bengal on the 23rd August, 1922, and now under the consideration of the Senate. The *Bengalee* states that the article has been reprinted in its columns at the request of the Government of Bengal (Publicity Department).

The situation thus created is so grave that in our opinion the Senate should assemble without delay to enable it to consider the position and to take such action as may be necessary.

n these circumstances, we request you, under Section 3 of Chapter of the Regulations, to convene a meeting of the Senate as early as practicable.

Yours faithfully,

MAHENDRANATH RAY.
G. C. BOSE.
A. CHAUDHURI.
P. C. RAY.
KAMINI K. CHANDA.
J. MAITRA.

Members of the Senate."

The following notice of motion had been received from Sir Asutosh Chaudhuri :

"That the matter be brought to the notice of His Excellency the Chancellor with the request that a full enquiry be made as to how the Publicity Department of the Government of Bengal

came to request the *Bengalee* to publish the article in the *Times Educational Supplement* relating to the financial condition of the Calcutta University."

The Hon'ble the Vice-Chancellor :—Gentlemen, this meeting has been convened under Section 3, Chapter I of the Regulations. On receipt of the requisition which has been circulated, it became incumbent upon me to convene a meeting. I found it stated in the second paragraph of the letter that the signatories were of opinion that the Senate should assemble without delay, and in the third paragraph I found the request that a meeting might be convened as early as practicable. I, therefore, felt that it was my duty to convene a meeting as early as practicable. Sir Asutosh Chaudhuri has given notice of a motion. I call upon him to place his motion before the Senate.

Sir Asutosh Chaudhuri :—Sir, the requisition on which this meeting has been called deals with the situation which has been created, and the situation is a grave one. Whatever may be said with regard to the Calcutta University, there is no doubt whatsoever that it is a great institution, that it is one of the greatest institutions of this country, and that the position of Bengal is due to it. Wherever I have gone, in England or in the Continent, the Calcutta University is recognised as the University of India. It has taken steps which other Universities have not taken so far. But I am not going to speak further as to the position it occupies in India, because we know all what it is. We have had difficulties and we are struggling against them. Some say that our system is at fault. Now, gentlemen, the same charge has been laid against the Universities of Oxford and Cambridge. They are trying to modify their system. They are also in want of funds. Whether our management has been a good one or not is a matter which is under enquiry. The Auditor has made a report and that report has been sent to us for consideration; a Committee has been appointed which is going into the matter and it will answer, so far as practicable, from our point of view, as to what ought to have been done and what has not been done; if not done, why not done? These are matters which are under consideration. But it is strange that the Publicity Officer should go out of his way and take an extraordinary step, requesting a newspaper in this country to publish an article which is merely a matter of opinion from the "Times Educational Supplement." The "Times" undoubtedly occupies a high position among the journals. But it does not occupy the same position now as it did before. Whatever it is, we do not know what led the Publicity Officer to request the

The University of Calcutta & Acharya P.C.Ray 1906-1944

"Bengalee" newspaper to publish the opinion of the "Times." Now, gentlemen, look at what has happened. The Auditor's report was sent to us on the 26th August this year. We are considering the report; our report is now practically ready, and will be sent to Government as soon as it is accepted by the Senate. Pending that, what business had anybody, not to speak of a responsible ministry, to rush into print about the matter and publish the observations of outsiders with regard to the University. I can quite understand that if a propaganda is being carried on against this University. This is a function which no ministry in any part of the world ought to take upon itself. Is it the policy of Government that the Calcutta University should be run down? If so, let Government proclaim it. It is not the business of a ministry to ensure circulation of an opinion expressed by other people unless it is prepared to accept that opinion as its own. It seems to me that the step which has been taken is a wrong one—it is an extraordinary one. An explanation ought to be forthcoming as to why the Publicity Officer has taken this step. The "Bengalee" is quite clear in its statement that it was requested by the Publicity Officer to publish the article. I do not know under what Minister the Publicity Office is.

The Hon'ble the Vice-Chancellor :—It is under the reserved department.

Mir Asutosh Chaudhuri :—Therefore in an unreserved manner it publishes an attack—a statement attacking the Calcutta University. Why the Publicity Office should have done so, we do not know. It was extremely improper on the part of the Publicity Officer to rush into print and practically make the comment in the "Times" a lever upon which to work against this University.

Continuing the speaker said :—The "Times Educational Supplement" is dated the 14th October of this year. I believe the mail steamer by which I came brought the paper and it arrived at Bombay on the 3rd November.

Mr. Herambachandra Maitra :—So you brought the paper with you.

Sir Asutosh Chaudhuri :—I did not send it to the Publicity Officer. It came with me, and it arrived in Calcutta on the 5th instant, unless an advance copy was obtained by the Publicity Office in some manner. The "Bengalee" published the article on Tuesday the 14th November. Therefore there was no time lost. Gentlemen, we need not enquire how the "Times" came to publish it. It is very curious that the article refers only

The University of Calcutta & Acharya P.C.Ray 1906-1944

to certain matters which are against us. It makes no reference to anything which is in our favour.

The Hon'ble the Vice-Chancellor:—We are not now concerned with the article.

Sir Asutosh Chaudhuri then formally moved the following resolution:—"That the matter be brought to the notice of His Excellency the Chancellor with the request that a full enquiry be made as to how the Publicity Department of the Government of Bengal came to request the *Bengalee* to publish the article in the *Times Educational Supplement* relating to the financial condition of the Calcutta University."

Mr. Manmathanath Ray seconded the motion.

The Hon'ble the Vice-Chancellor:—I request the members to confine their speeches to the proposition in the Resolution and not bring in matters which are not relevant. The contents of the article in the "Times Educational Supplement" are not before us and they cannot be discussed here. As I read the motion, it asks the Senate to decide that this matter should be brought to the notice of His Excellency the Chancellor, with the request that he should make a full enquiry as to how the Publicity Officer of the Government came to request the "Bengalee" to re-publish the article.

Rai Chunilal Bose, Bahadur:—I think that we are not pursuing the right course in this matter. From the statement in the papers which has been circulated to us, as well as from the speech of the Hon. Mover of the resolution, it appears that we are proceeding on a certain statement made by the Editor of a paper which, so far as I see, we have not taken the trouble to verify. In the first instance, we should know how some papers make irresponsible statements which, when regularly scrutinised, are found not to be supported by facts. I have seen many instances in which charges against this University have been brought publicly in the papers and we know about them simply because they have been published in the papers. Sometimes we do not care to take any notice of them. It may be one of those cases; it may be that the over-zealous Editor of the paper might have made the statement without properly scrutinising the matter; if subjected to a searching enquiry, probably some other explanation will be forthcoming. My point is this. I think the Senate is rather a little premature in taking action in this matter at this stage. I am at one with the Hon. Mover of the Resolution that if the Government participate in action like this, their action is open to serious consideration. Our duty in the first place is to ascertain whether there is any truth in the allegation made by the paper.

The University of Calcutta & Acharya P.C.Ray 1906-1944

In my humble opinion the right course we ought to adopt is to ask the Registrar to address officially the Government of Bengal and ascertain how far the allegation made by the paper that the publication of the re-print was made at the request of the Publicity Department was correct. When we receive the reply from Government, then it will be time for the Senate to meet and consider this question and to adopt any resolution which it finds necessary and well-suited to the circumstances of the case. Before that, I think we are a little hasty in our action, if we accept this resolution to-day. After all, it is quite possible that Government will deny any responsibility in the matter. It may be, Government may very well say we cannot be responsible for any personal act on the part of the Publicity Officer. Therefore I say under the circumstances, if Government disclaims any knowledge in the matter, we shall look very small and our energy, time and enthusiasm spent this evening will have gone for nothing. I would therefore earnestly urge upon the Senate to postpone consideration of this question and ask the Registrar to write to the Government of Bengal and ascertain the facts of the case.

The Hon'ble the Vice-Chancellor :—I wish to realise the precise position taken up by Rai Bahadur Dr. Chunilal Bose. The allegation made in the newspaper in question was this—"We have been requested by the Publicity Officer of the Government of Bengal to reproduce the following article, etc." Is it your point that it may be a mis-statement?

Rai Chunilal Bose, Bahadur :—Yes.

The Hon'ble the Vice-Chancellor :—The article appeared on Tuesday. I find the following in the issue of the paper this morning: "It caused us no little surprise to have received the request from the Publicity Officer for the publication in our columns of an ill-informed and bitter criticism of the 'Times' on the Calcutta University." There is the statement made on the 14th November; it is repeated on the 18th November that the Editor had received the request from the Publicity Officer. Is it your desire that we should ascertain whether it was a fact or not that he received such a request?

Rai Chunilal Bose, Bahadur :—Yes.

The Hon'ble the Vice-Chancellor :—Under what circumstances the request, if any, was made is the very matter upon which Sir Asutosh Chaudhuri proposes that an enquiry should be made by His Excellency the Chancellor.

Rai Chunilal Bose, Bahadur :—I am also for making an enquiry, but my method is different.

The University of Calcutta & Acharya P C.Ray 1906-1944

Sir Nilratan Sircar:—A question has been raised as regards the genuineness of any communication from the Publicity Department, Government of Bengal, to the Editor of the "Bengalee" and I feel myself under the necessity of placing the letter before you which has been handed over to me by the Editor who is deeply interested in the affairs of the University. The letter runs thus:—D.O. No. 3895, Publicity Office, Bengal. Private. Dear Mr.—"I shall be extremely obliged if you could see your way to re-printing the accompanying extract from the 'Times of India's Educational Supplement' in an early issue of the paper. Thanking you in anticipation, yours sincerely, Sd. S. Sen Gupta. To the Editor of the 'Bengalee.'" To this was attached a type-written copy of the article.

Mr. H. C. Maitra:—The letter is marked "private"?

Sir Nilratan Sircar:—Yes.

Mr. H. C. Maitra:—How did it come to you?

Sir Nilratan Sircar:—The Editor handed it over to me.

The Hon'ble the Vice-Chancellor:—Are you connected with the "Bengalee"?

Sir Nilratan Sircar:—I have some responsible part in the management of the "Bengalee." The Editor asked me to place it before the Senate, if necessary, and I take the responsibility. The point is that whoever sent it to the "Bengalee" had two objects in view; one object was the re-publication of the "Times'" attack upon the University in the "Bengalee," and the other object was to achieve the end of having that article widely circulated in India by keeping his hands unseen. He wanted to do it secretly.

[At this stage, Sir Nilratan Sircar handed the letter over to the Hon'ble the Vice-Chancellor.]

The Hon'ble the Vice-Chancellor:—You have placed the original letter in my hands. Do you authorise the Senate to send a copy of this to His Excellency the Chancellor, if the motion is accepted, so as to facilitate the enquiry?

Sir Nilratan Sircar:—I have been authorised by the Editor to do so.

Dr. H. Suhrawardy:—While speaking on his motion, Sir Asutosh Chaudhuri spoke of "Ministry in charge of the Publicity Office."

The Hon'ble the Vice-Chancellor:—We are concerned with the motion only and not with an expression that might have been used by Sir Asutosh Chaudhuri. I corrected him.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Sir Asutosh Chaudhuri :—I do not think I said it. If I said it, it was a mistake.

Dr. H. Suhrawardy :—It is a reserved department.

Sir Asutosh Chaudhuri : That is why I said it acted in an unreserved way.

Mr. Jatindranath Maitra :—Is the Publicity Officer also Secretary to the Education Minister ?

The Hon'ble the Vice-Chancellor :—We have no official information.

Mr. Jaminibhushan Ray :—After what we have heard from Sir Nilratan, I think the case is clear. No amount of speech is required to show to the Senate whether Government is implicated in the matter.

The Hon'ble the Vice-Chancellor :—If no speech is required, why do you make a speech ?

Mr. Jaminibhushan Ray :—I shall do it in one minute. I want simply to say that I am very glad to support the motion of Sir Asutosh Chaudhuri so that we may request His Excellency to enquire into it.

Dr. H. Suhrawardy :—I am inclined to support the amendment of Rai Chunilal Bose, Bahadur.

Rai Chunilal Bose, Bahadur :—I moved no amendment. I simply made some observations.

Dr. H. Suhrawardy :—It is desirable that the action of the Publicity Officer may be referred to the Government of Bengal before the Senate considered the desirability of addressing His Excellency the Chancellor on the subject. There is no doubt that we have now got the letter. , But still it is rather a curious and unusual procedure adopted by the Editor of the paper that though the letter from the Publicity Office has been marked " private," it has been allowed to be made public by the Editor of the " Bengalee."

The Hon'ble the Vice-Chancellor :—We are not concerned with journalistic ethics here.

Dr. H. Suhrawardy :—But we can take action on journalistic indiscretion.

The Hon'ble the Vice-Chancellor :—I desire to state that we have no right to address the Government of Bengal

The University of Calcutta & Acharya P.C.Ray 1906-1944

in the reserved department, as to what may or may not have been done by the Publicity Officer. The Chancellor of the University is the Head of the Government of Bengal. If any action is to be taken, the proper course is to place the communication before the Chancellor. If he should take any action at all, it is for him to decide what action to take.

Mr. G. C. Bose:—I am a signatory to the requisition. I do not know whether it is relevant on my part to ask if the "Bengalee" was the only paper which was asked or requested to publish the matter, or whether any other paper also was similarly requested. I have information with me which if you wish I can place before you. I want to know the opinion of the Vice-Chancellor if it is not out of order.

Mr. H. C. Maitra:—Information is always welcome.

The Hon'ble the Vice-Chancellor:—If you are prepared to do what Sir Nilratan Sircar has done and hand over to me any letter that may be with you, you can speak. But if you simply desire to state what you have heard, then it will not be relevant.

Mr. G. C. Bose:—I have not the letter with me

The Hon'ble the Vice-Chancellor:—Then you should not deal with the matter.

Mr. M. N. Banerjee:—I am of the same opinion with Rai Chunilal Bose, Bahadur. Of course from what we have heard from Sir Nilratan Sircar who has produced the D. O. letter, the only question that arises is whether we should accept the D. O. letter and can rely on it. The late Dr. Sarvadhikari relied a great deal on a D. O. letter from Government. But he was told that it was a D. O. letter and not an official letter. So I think we should not take action without going into the facts in detail and ascertaining the truth.

Mr. Khuda Buksh:—I do not understand the difference between a D. O. letter and an official letter. The letter was sent officially to the Editor of the "Bengalee." You have also the information before you. One thing is perfectly certain that the Publicity Officer has done things which should not have been done. If he wanted to criticise, the best course would have been to send the criticism to the University. This sort of action is not commendable on the part of Government. Government ought to have sent the article in the "Times Educational Supplement" to the Vice-Chancellor. To lend countenance to

the practice of circulating broadcast a hostile criticism of the University by sending the letter to the Editor is not worthy of any officer or any office. We should not hesitate to take action now. We ought not to wait and consider whether there is truth in the allegation. We have conclusive evidence. The action of the Senate is perfectly proper and the motion is perfectly just and suited to the purpose.

The Hon'ble the Vice-Chancellor :—From what has fallen from Rai Bahadur Chunilal Bose, Sir Asutosh Chaudhuri, Dr. Suhrawardy and Dr. Banerjee and from a careful reading of the motion, it strikes me that the proper phrase in the motion is not the "Publicity Department" but the "Publicity Office" of the Government of Bengal. Probably "Department" is too comprehensive and as is suggested, an enquiry may show that no one in authority knows anything about it, that it was not done by anybody in authority, but that it might have been done by some mischievous officer. The action taken by the Senate will give Government an opportunity to say so.

Sir Asutosh Chaudhuri :—I should like to put in "Publicity Office" in place of "Publicity Department."

Leave was granted.

Mr. M. N. Banerjee :—We should address the Governor as Chancellor and not as Governor of Bengal.

Sir Asutosh Chaudhuri :—It is Chancellor in the resolution and not the Governor of Bengal.

Mr. Manmathanath Ray :—Whether the *Bengalee* is guilty of journalistic impropriety or not, or what is the implication of a D. O. letter, we need not consider. But we ought to say this that the *Bengalee* has done a real and a great service to the public by bringing to light the secret workings of the Government of Bengal against the University.

The Hon'ble the Vice-Chancellor :—The "Bengalee" requires no certificate from you.

Professor Hiralal Haldar:—We live to learn. In our younger days, propagandism by Government other than what is involved in the ordinary course of party warfare was unknown. In those days the ways and methods of Government were aristocratic and dignified. Particularly since the war, propagandism by one country against another—the propagandism by the Allies against Germany and *vice versa* has become somewhat common. Before now, however, nobody has ever heard of the Government

of a country conducting a campaign against an institution of that country itself.

The Hon'ble the Vice-Chancellor :—You are making an assumption.

Professor Haldar :—But that is true.

The Hon'ble the Vice-Chancellor :—Do not make any assumption. When you have found out the facts, you will have ample opportunity to make comments.

Professor Haldar :—Then it will be a phenomenon of scientific interest.

The Hon'ble the Vice-Chancellor :—We shall investigate the phenomenon.

The motion as altered was put to the vote and carried, only two members dissenting.

Mr. Khuda Buksh :—Names of those gentlemen who are opposed to the motion should be recorded.

Mr. Manmathanath Ray :—Their names should be sent up to Government, for such action as the Government might think fit.

The Hon'ble the Vice-Chancellor :—(to Mr. M. N. Roy) Mr. Roy, you have no right to speak in that strain. Every honest man is entitled to speak out his own views.

Mr. Manmathanath Ray :—I apologise, Sir.

Rai Chunilal Bose, Bahadur :—(to the Hon. the Vice-Chancellor) Thank you very much, Sir, for your kind protection.

The Hon'ble the Vice-Chancellor—Mr. Dutt of the Murarichand College, Sylhet, has sent a telegram regretting inability to attend this meeting but signifying his full concurrence in the object of the meeting.

(Confirmed.)

ASUTOSH MOOKERJEE, J. C. CHAKRAVORTI,

Vice-Chancellor. *Offg. Registrar.*

NOTE.

The following is a copy of the letter mentioned above:

Telephone No. 565 Regent.
GOVERNMENT OF BENGAL.

D. O. 3895.
PUBLICITY OFFICE, BENGAL,
5, Esplanade Row, West,
CALCUTTA:
11th November, 1922.

Private.

DEAR MR. ROY,

I shall be extremely obliged if you could see your way to reprinting the accompanying extract from the "Times of India Educational Supplement" in an early issue of your paper.

Thanking you in anticipation.

Yours sincerely,
Sd. S. SEN GUPTA,
11/11.

P. C. ROY, Esq.,
Editor, Bengalee, Calcutta.

The University of Calcutta & Acharya P C Ray 1906-1944

MINUTES OF THE SENATE

FOR THE YEAR, 1922.

No. 21.

THE 2ND DECEMBER, 1922.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *Vice-Chancellor, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Heramabachandra Maitra, Esq., M.A.

Adharchandra Mookerjee, Esq., M.A., B.L.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Prof. C. E. Cullis, Ph.D., D.Sc.

Girischandra Bose, Esq., M.A., M.R.A.S.

Sir Asutosh Chaudhuri, Kt., M.A., LL.M., M.L.C.

Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Jnanchandra Ghosh, Esq., M.A.

Debendranath Mallik, Esq., Sc.D., B.A., F.R.S.E.

Satischandra Bagchi, Esq., B.A., LL.B., LL.D.

Rai Bahadur Dineschandra Sen, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Jnanranjan Banerjea, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Prof. Hiralal Haldar, M.A., Ph.D.

Satischandra Ray, Esq., M.A.

Rev. J. Watt, M.A., D.D.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

S. Khuda Buksh, Esq., M.A., B.C.L.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P., F.R.C.S.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Kaminikumar Chanda, Esq., M.A., B.L.

Mahendranath Banerjee, Esq., B.A., M.R.C.S., C.I.E.

Krishnalal Datta, Esq., M.A., F.S.S., F.E.S.

Harendracoomar Mookerjee, Esq., M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L.

Asutosh Sastri, Esq., M.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

A. E. Brown, Esq., M.A., B.Sc.

Egerton Smith, Esq., M.A.

J. C. Coyajee, Esq., B.A., LL.B.

Jatindranath Maitra, Esq., M.B., M.L.C.

Khagendranath Mitter, Esq., M.A., M.L.A.

Prabhatnath Banerjee, Esq., M.A., A.M.I.E., (Ind.).

The Hon'ble the Vice-Chancellor :—Gentlemen, it will be in your recollection that last year Mr. Prankrishna Chatterjee offered to place at the disposal of the University his School at Ikhra in order that the University might maintain it as a school with a mining department attached to it. It has taken a very long time to get the deed executed and registered. We have now to proceed to appoint a Committee of Management.

Mr. Manmathanath Ray moved that Prof. P. Brühl and Mr. Jnanchandra Ghosh be elected reprsentatives of the enate on the Committee for the management of the Basanti-Bejay School of Mines at Ikhra.

Mr. Khagendranath Mitter seconded the motion which was carried.

2. **Prof. P. Bruhl** moved that the Advisory Board for the Basanti-Bejay School of Mines at Ikhra be constituted as follows :

1 The Chief Inspector of Mines, Dhanbad.
2 Sir Nilratan Sircar, Kt., M.A., M.D., L.L.D., D.C.L.
3 Mr. K. S. Keelan (Bengal Coal Company, Jamuria).
4 Mr. Prankrishna Chatterjee—Ikhra.
5 Mr. Bagalacharan Kanjilal, M.B., Medical Officer attached to the School at Ikhra.

Rai Chunilal Bose, Bahadur, seconded the motion which was carried.

3. **The Hon'ble the Vice-Chancellor** placed before the Senate for acceptance the recommendation of the Syndicate that, in view of the special excellence of the work done by Dr. C. E. Cullis as Hardinge Professor of Higher Mathematics, he be made *Emeritus* Professor of Mathematics from the date of his retirement from the University.

He said :—It will be in your recollection that Professor Cullis was appointed University Reader in 1910 and undertook to deliver a course of lectures on Matrices and Determinoids. The lectures were duly delivered and published He was subsequently appointed Hardinge Professor of Mathematics in 1917 for a term of three years. His term expired in 1920, and it was then extended for a further period of two years. During this period he has worked at very great personal sacrifice, because by reason of the revised scale of the salaries paid to the members of the Indian Educational Service, he would have been entitled to at least Rs. 400 every month in excess of what was paid to him by the University. But such was his love for work in this University that he declined to avail himself of this benefit by return to Government service. His term expires on the 22nd December,

and he proposes to revert them to Government Service for a short period. He is due to retire from Government service in the beginning of April. In these circumstances, the Syndicate felt that in view of the special excellence of his work he should be made an Emeritus Professor of the University, so that his connection with the University might not be completely severed. The second volume of his work has been published. The first part of the third volume is in the press and is likely to be published very soon. There is more material still in manuscript. I am afraid the topic is so abstruse that even amongst mathematicians who possess a very advanced knowledge of the subject, a few are in a position to grasp thoroughly the recondite principles underlying the work.

Mr. Manmathanath Ray seconded the proposal which was carried.

4. **Mr. Pramathanath Banerjee** moved that the following committee be appointed to deal with the question of the appointment of a successor to Prof. C. E. Cullis, whose term of office as Hardinge Professor of Higher Mathematics would expire on the 22nd December, 1922 :

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I.
Mr. W. W. Hornell, C.I.E., M.A., M.L.C.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Prof. C. E. Cullis, M.A., Ph.D., D.Sc.

Mr. Manmathanath Ray seconded the motion which was carried.

5. **Prof. D. R. Bhandarkar** moved that the Proceedings of the Council of Post-Graduate Teaching in Arts, dated the 15th November, 1922, be confirmed.

Mr. Pramathanath Banerjee seconded the motion which was carried.

6. **Prof. P. Bruhl** moved that the Proceedings of the Council of Post-Graduate Teaching in Science, dated the 14th November, 1922, be confirmed.

Mr. Jnanranjan Banerjea seconded the motion which was carried,

7. **Mr. Jnanranjan Banerjea** moved that, in extension of the affiliation already granted the Brajamohan College, Barisal, be affiliated in English, Vernacular Composition, Mathematics, Physics and Chemistry to the I.Sc. standard and in Physics to the I.A. standard with effect from the commencement of the session 1923-24.

Mr. Manmathanath Ray seconded the motion which was carried.

8. **Mr. Ramaprasad Mookerjee** moved that the admission of the following graduates to the M.A. Examination as non-collegiate students be sanctioned :

Name.	Qualification.	Year.	Subject.
Jogeschandra Mookerjee	B.A. 1918	1922	English.
Sishukumar Paul ...	B.A. 1920	1923	,,

Mr. Manmathanath Ray seconded the motion which was carried.

9. **Mr. Ramaprasad Mookerjee** moved that the following candidates, who had passed the I.Sc. Examination, be permitted to appear at the next I.A. Examination as non-collegiate students in the subjects stated against their names :—

Names.	Subjects.
Md. Fazlur Rahman Khan ...	... Persian
Narayanchandra Banerjee ...	... Sanskrit
Pramathanath Banerjee ...	... Do.
A. M. Ahmed Abdul Daqayem ...	... Persian
Sheikh Abdul Hakim ...	... Do.
Lala Ramchandra ...	... Logic
Mahadev Mallik	... Sanskrit & Logic
Nilambucharan Mitra ...	... History
Ajitkumar Mookerjee ...	... Sanskrit
Pasupatinath Sen	... Do.

Mr. Manmathanath Ray seconded the motion which was carried.

10. **Prof. P. Bruhl** moved that Sachindranath Bagchi, who after passing the I.Sc. Examination with Physics and Botany joined the B.Sc. Course, be permitted to appear at the next I.Sc. Examination in Mathematics, as a non-collegiate student.

Mr. Jnanranja Banerjea seconded the motion which was carried

11. **Dr. Bidhanchandra Ray** moved that Satischandra Gupta, who qualified himself as a Sub-Assistant Surgeon from the Campbell Medical School in 1913, be permitted to appear at the next I.Sc. Examination as a non-collegiate student.

The candidate was permitted by the Senate to appear at the last I.Sc. Examination but could not sit for the Examination in all the subjects owing to an attack of small-pox.

Rai Chunilal Bose, Bahadur, seconded the motion which was carried.

12. **Mr. Manmathanath Ray** moved that Gatikrishna Sen, who was permitted by the Senate to appear at the last I.Sc. Examination as a non-collegiate student but could not avail himself of

the permission owing to illness, be allowed to appear at the next I.Sc. Examination as a non-collegiate student.

Mr. Jnanranjan Banerjea seconded the motion which was carried.

13. **Mr. Pramathanath Banerjee** moved that the following students, who completed their attendance at lectures at the Dacca College or the Jagannath College, be permitted to appear at the next I.A. or B.A. Examination, as the case might be, as non-collegiate students:—

Name.	Name of Examination.	Remarks.
Girischandra Bhaumik	B.A.	Registered himself as candidate for the B.A. Examination in 1921 but could not appear.
Atulchandra Chakrabarti ...	,,	Was a candidate at the last B.A. Examination of the Dacca University but could not appear in all the subjects.
Heramhanath Chakrabarti ...	,,	Was unsuccessful at the last B.A. Examination of the Dacca University.
Binodbihari Sarkar ...	,,	Do.
Nityagopal Saha ..	,,	Do.
Abdul Bari ...	I.A.	Left the Second-year Class of the Jagannath College in December, 1921; has been permitted to join the B. M. College, Barisal.

Mr. Manmathanath Ray seconded the motion which was carried.

14. **Mr. Ramaprasad Mookerjee** moved that the following candidates, who had been serving as teachers for three years, be permitted to appear at the I.A., I.Sc., B.A. or B.Sc. Examination, as the case might be, as non-collegiate students:—

I.A. Examination, 1923.

Madhusudan Gangopadhyay
Girijananda Mallik
K. C. Nalacanda Varier
Surendralal Goswami
C. S. Abdul Wahab
Vepa Jagannathamurti
Rajaram Tiwary
Nawab Kishorelal Das
Miss F. Dinker

I.A. Examination, 1924.

Y. Venkateswarlu

I.Sc. Examination, 1923.

M. S. Darvanarayam Pillai.

The University of Calcutta & Acharya P.C.Ray 1906-1944

B.A. EXAMINATION, 1923.

Hrishikesh Ray
Prabodhananda Chakrabarti
Gopeschandra Bandyopadhyay
V. P. Sankaran Nayer
Abdul Bari
Chas Xavier.
Tarinimohan Chakrabarti
Indubhushan Bhattacharyya
S. K Venkatachalam
Jagannath Sarma
Rajendranath Das
Rameschandra Majumdar
Saratchandra Paul
Tirbhawanmath Bhan
P. P. Abraham
Girindrakumar Chakrabarti
Aswinikumar Laskar
Gopalkrishna Bhattacharyya
Monomohan Sanyal
O. Ramchandra Rao
Md. Saifuddin
Ijjat Ullah Ahmad
Mohammad Fazlul Haque
Saratchandra Chakrabarti
Sarbeswar Sarmakakti
Sureschandra Sengupta
Lalitkumar Ghosh
Nagendrakumar Chakrabarti
Md. Abdul Aziz
Muhammad Abdur Rouf
Sibakali Lahiri
Gopalchandra Sengupta
Narendranath Ghosh
Panchanan Biswas
Jogendranath Chakrabarti

B.Sc. EXAMINATION, 1923.

Anand Das

Mr. Jnanranjan Banerjea seconded the motion which was carried.

16. **Mr. Jnanranjan Banerjea** moved that Edrenel Chyne, an unsuccessful candidate at the B.T. Examination in 1921, be permitted to appear at the next B.T. Examination as a non-collegiate student.

Mr. Birajmoham Majumdar seconded the motion which was carried.

16. **Mr. Birajmohan Majumdar** moved that Prajesprasanna Sen and Bholanath Chatterjee, whose percentages of attendance at lectures had fallen short of the prescribed limit owing to illness, be permitted to appear at the Intermediate Examination in Law in January, 1923, as non-collegiate students.

Mr. Pramathanath Banerjee seconded the motion which was carried.

17. **Mr. Birajmohan Majumdar** moved that Praphullakumar Chatterjee, who was permitted by the Senate to appear at the Intermediate Examination in Law in January, 1922, as a non-collegiate student but could not avail himself of the permission owing to illness, be allowed to appear at the Intermediate Examination in Law in January, 1923, as a non-collegiate student.

Mr. Pramathanath Banerjee seconded the motion which was carried.

The University of Calcutta & Acharya P.C Ray 1906-1944

18. The Senate proceeded to consider the report of the Government Grant Committee appointed on the 9th September, 1922.

Dr. Bidhanchandra Ray :—May I inquire how it is that extracts from the Report of the Committee, which has been sent to us marked confidential, appeared in the "Statesman" last Tuesday occupying five columns and were commented on the following Thursday; was any copy of the Report sent to the "Statesman"?

The Hon'ble the Vice-Chancellor :—As soon as the "Statesman" came out with several columns on this subject, the Registrar addressed a letter, dated the 28th November, 1922, which I shall place before the Senate. It is as follows :—"My attention has been drawn to your issue of this (28th November) morning which contains extracts from the report submitted by a Committee of the Senate on a letter from the Government of Bengal relating to the grant of financial assistance to the University. The report has not yet been considered by the Senate. Copies of the report supplied to the members of the Senate were marked "confidential till considered by the Senate." No copy was sent to you by this office for publication before the Senate could meet to consider the report. I shall be obliged if you will let me know how the report has come to be published by you before the meeting of the Senate."

The following reply was received on the 30th :

"Dear Sir,

I beg to acknowledge receipt of your letter No. G. 88 of November 28th."

Dr. Bidhanchandra Ray :—Is that all?

The Hon'ble the Vice-Chancellor :—Yes.

Dr. Bidhanchandra Ray :—Very kind of the Editor.

The Hon'ble the Vice-Chancellor :—I shall make no comment.

Sir Praphullachandra Ray, while moving that the Report of the Government Grant Committee be adopted, said :

I submit this report for adoption by the members of the Senate. I do not think it is necessary to inflict a lengthy speech. More so because I confess I lack the capacity. The report has been circulated, I hope, to the members in time, and, I trust, they had had ample time to go through it, as many momentous issues are involved. In the first place, I draw the attention of my colleagues to two points. Much capital has been made in the Government letter of the report

The University of Calcutta & Acharya P C Ray 1906-1944

of the Accountant-General on the finances of the University. It is asserted that the report reveals the fact that the financial administration of the University has been anything but satisfactory. The report has been dealt with at some length in the report of the Committee, page 50, and I hope the perusal of it will convince any unbiassed person that the Report of the Accountant-General, if it points to anything, points to the extreme inadequacy of the grants made to the University from public funds. The contributions by Government in the year 1921-22, out of a total expenditure of 8,69,793-4-6 in the Departments of Arts and Science, were Rs. 68,135—a little over 8 per cent. I leave it to my colleagues to consider whether the grant is at all adequate. It will be in the memory of the members of the Senate that it fell to my lot to resist the proposal to saddle our countrymen with additional expenses by increasing the examination fees of the poor students. My point was not in any way to paralyse the activities of the University but to force the hands of the Government. (Reads an extract.) The Accountant-General does not say that the University Funds have been misapplied or misappropriated. I now come to the conditions of the Government grant. A perusal of the Government letter leads us to the conclusion that the Government desires to utilise the present financial embarrassment of the University to obtain control over its affairs in a manner not contemplated in the Indian Universities Act of 1904. It reveals the attitude adopted by the Imperial Government since the year 1912. It seems to me, Sir, that there is an unseen hand working from behind with dark and sinister purposes since the year 1912 onwards. While the Government of India had been putting off the claims of financial assistance for the post-graduate scheme on the score of want of funds, it could easily spare something like ten crores of rupees or more for the construction of new Delhi. A well-informed Calcutta daily went to the length of characterising this expenditure as "wicked waste." The Government of India also could make up its mind to earmark 150 crores of rupees during the next five years for the rehabilitation of the railway. One-hundredth of it, *i.e.*, one and a half crore could rehabilitate the University.

Mr. Manmathanath Ray: Even less.

Continuing **Sir Praphullachandra Ray** said: Let us come to the Government of Bengal, which I find is the legal inheritor of the noble traditions of Simla. What am I to say of the Bengal Legislative Council which would not give us even 2½ lacs of rupees? Is this the first fruit of the so-called Reforms Act, an earnest of what was expected of an Indian member as Minister of

The University of Calcutta & Acharya P C Ray 1906-1944

Education ? In that case, I am afraid, we have to exclaim, "Lord, deliver us from such a reform." The Provincial Council says that it is the custodian of public funds. The Council may grant five or six lacs if it comes to providing comfortable quarters for married Sergeants; the Councillors are quite willing to grant two or three lacs for Hospital Nurses' quarters. Are these things of far greater importance to Bengal than higher education ? I need not take up more time by dilating on this point. There are other and more veteran exponents. If I am zealous of scientific education I never maintain that it should be carried on at the expense of culture. I am as much for the Humanities and Liberal Culture as for Scientific Education. Culture and Science go hand in hand. When I come to my own College of Science, I am apt to lose my balance of mind. I can scarcely restrain myself. I find that the people of Bengal in some shape or other contributed sixty lacs for the College of Science; in endowments alone—I speak subject to correction—it amounts to about forty-five lacs. Out of fees from my beloved poor students throughout Bengal we have got as much as ten lacs. Out of other funds we have got something like five lacs. All this makes up sixty lacs. But the Government has given a precious grant of one lac and twenty thousand—twelve thousand a year. Is this to be expected of a civilised Government, when we have to make up lost ground ? I hold in my hand the latest issue of a scientific journal in Chemistry. Look at the number of original papers. Look at the record of one month's work in Chemistry alone ? It amounts to 588 original papers by as many authors. A list of authors is given in alphabetical index. It represents only one branch of science. There are similar activities in Physics, Biology, Bacteriology, Botany, Physiology, and so forth. I need not amplify the names. There are several thousands of papers published in Europe, America, and Japan every month. What is the contribution made by Indians ? Barely one or two. We are practically nowhere if we take our students' contributions in the scientific world. Such being the case, one might have expected of the Government of India, or of its successor, the Government of Bengal, to come forward with a liberal grant to uphold us in this struggle we are making in advancing the cause of Science ? Only this morning one of my colleagues, the Professor of Physical Chemistry, an ardent student of science spoke to me with reference to the inadequacy of equipment in the College of Science. Just two years ago, about this time, while I was in London it was my privilege to attend a Conference of Chemists, at which papers on Colloid Chemistry and on other subjects were read, and amongst these papers there was one contributed by this young friend of mine. The "NATURE" remarked

that of all the papers read in the Conference, the most important was the one by my young friend who need not be named. We were fortunate in securing his services on a pay, which is the initial pay of the Indian Educational Service. He was complaining to me this very morning that he could not send an order for a small table so that he might put up apparatus for making experiments. I, as responsible head of the Department, was taken to task by the Education Minister, because I had ordered a few thousands worth of articles in anticipation. We have to anticipate orders for scientific apparatus at the Presidency College. If we have to order anything, as is contemplated in the new scheme, we shall have to wait in the ante-chamber, not only of the Minister but his advisors. I think we had better show a bold front. The conditions which have been imposed are so humiliating, so gallingly derogatory to our self-respect, that we had better close down the concern, look up the gates of the University and go about the country for support. It appears that the Government has actually abdicated its function. Strange doctrines of Political Philosophy are being enunciated. We are told that the primary function of the Government of India as well as of the Government of Bengal is the maintenance of "law and order." Hence they were very careful to see that only military expenditure and that of the Police of the Provincial Government were provided for. Other departments might well be left to take care of themselves, to starve, to shiver in the cold shade of neglect. We cannot put up with this state of things. Let the Government abdicate its function if it likes. I must play the role of the professional beggar. I have gone about the country with the beggar's bowl. Last year I got in this way three lacs for Khulna famine. This year I have got more than five lacs. I think the patriotism of Bengal will prove equal to the occasion if the Government adopts this strange attitude. Government was unstinted in its liberality when it came to decorate the ball room at the Belvedere. A grave crisis is looming large in the horizon of our national intellectual progress. We are threatened with a national disaster. So it behoves us to take concerted action and try our best to avert the calamity. We should gird up our loins and see that the noble heritage which has been granted to us is not bartered for a mess of pottage. I feel very very strongly on this occasion. In the evening of my life I thought I might hand down to our successors the lamp which we have been able to light so very dimly, so that it might burn very brilliantly. That feeble light is about to be extinguished. That is the reason why on this occasion I have

not been able to keep my vow of silence. Seldom or never have I taken any active part in the debates of the Senate. I was content simply with recording a silent vote. On a memorable occasion, more than a century ago, Raja Rammohan Ray, the maker of modern Bengal, nay of modern India, addressed a letter to the then Governor-General of India, Lord Amherst, saying that silence on his part would be construed as a great dereliction of duty. On that occasion the illustrious Raja pleaded the cause of Western Education, in the interest of not only literature and philosophy, but also in the interest of my own favourite subject, Chemistry. The appeal which he made in the interest of high education yet appeals to the heart of the later generations. We shall not go down on our knees. Let us go to the people of the country, headed by the Hon'ble the Vice-Chancellor and a deputation of the Senate, and make a house to house visit—or rather a visitation. Come what it may I am sure the cause of education will not suffer. I need not speak further. I have said what I had to say and I could not keep myself under anything like restraint.

About this barter of our birth-right, I should beg to read a very notable extract from the speech of Mr. Fisher, late Minister of Education in England. We have concluded our report with it, we cannot do better than to lay special stress upon it. It is an inducement to refuse to accept any Government grant on humiliating terms. The Minister of Education distinctly says that no one appreciates more fully than himself the vital importance of preserving the liberty and autonomy of the University as laid down in the statute. I make a final appeal to the Education Minister to read and digest every word of the report and think twice before he pursues the course which he has contemplated. With these words I submit the report for adoption.

Rai Bahadur Dr. Dineschandra Sen seconded the motion, observing that every member of the Senate should be proud of this monumental report.

The Hon'ble the Vice-Chancellor :—The matter is now open for discussion.

Prof. Hiralal Haldar :—The report of the Committee should be an eye-opener to many. It is an effective reply to those who say that the University has wantonly and in unnecessarily bitter conflict with the Government made arrangements for Post-Graduate teaching and research. What are the main facts? The Act of 1904 definitely requires that the Calcutta University should be a teaching University. In accordance with its provisions, arrangements for Post-Graduate instruction were made as soon

as that Act came into force. The Government of India at first viewed with sympathy the efforts of the University in this direction. For some reason or other that sympathy gradually changed into indifference and indifference into hostility. A strong and influential Committee was appointed to inquire into the teaching activities of the University. That Committee presented a unanimous report. The Government of India intimated that they would be prepared to give their sanction to the recommendations of the Committee if the Senate accepted them. The Senate approved of the scheme and the organisation for Post-Graduate teaching came into being. How then can it be said that the Vice-Chancellor alone is responsible for the development that has taken place? It is not necessary to be exceptionally talented to understand that in this imperfect world nothing can be done without money. While money was not wanting for the unnecessary creation of new Universities—nothing was available for the premier University of India. Not only the Government of India did not help the University, but it refused to allow it to help itself. The Government rejected the proposal for increasing the examination fees. At this juncture an important change of scene took place. The Government of India made their exit. The Government of Bengal entered, looking very agreeable and smiling most pleasantly. So bland was the smile that even a sedate man like Sir Nilratan Sircar was captivated. The outlook seemed to be bright and hopeful. This was in February, 1921. But in February, 1922, the smile most unaccountably was changed into a frown, and a few days later in March, came the famous outburst. March is, no doubt, a season of thunderstorms, but so sudden a thunder clap on the very first day of the month was scarcely expected. "Thoughtless expansion," "almost a criminal act," exclaimed the Minister of Education! But inspite of this indictment, the Vice-Chancellor is not in the prisoner's dock. On the contrary he happens to be in excellent company, in the company of no less a man than the renowned philosopher, Edward Caird. The result of his efforts to reform the University of Glasgow is thus stated by his biographers—"There ensued a rapid and large development of teaching power in the University. A great many lecturers and assistants were appointed, more subjects were taught, and the ways in which subjects could be chosen and grouped for degrees are now not easily numbered. Moreover, the influence exerted by the large younger staff of lecturers and assistants upon both the Professors and the undergraduates is, to put it modestly, informing for the latter and stimulating for both." By what strange mischance is it that what is praiseworthy in Glasgow becomes criminal in Calcutta?

If, after the vituperation of March and July last, the money voted by the Council had safely arrived, it would have been some consolation. But it is not within sight, and we poor teachers of the University are still starving. There is a Bengalee saying "Dog, wait in expectation until the month of *Pous*, rice will be given to you then." The month of *Pous* is coming. I wonder whether the Minister of Education is going to give us rice then.

Why the letter of the 23rd August was written is a mystery. The best course for the Government would have been, as Principal Bose suggested at the time, to send the report of the Accountant-General to the University with the request that necessary action might be taken. If the object of the Government really was to improve the financial position of the University, they committed a sad blunder in writing a letter like that. If, on the other hand, their object was to humiliate the University, they have admirably succeeded in achieving that purpose. I have heard people asking why the University could not accept the conditions of the Government, some of which at any rate were not unreasonable. The answer is that they could not be accepted because they are presented as an ultimatum. No self-respecting body that values its freedom can tamely submit to dictation. Sir, they in the Ministry of Education would do well to study Psychology a little. They will then understand that it is not easy for a self-respecting man or a self-respecting body of men to accede to demands made at the point of the bayonet.

Although the University cannot sell its birth right for a mess of pottage, we are not obstructive in spirit and are not unwilling to do what we can, to put our house in order. Of our own motion, we have in the budget rules adopted most of the suggestions of the Accountant-General. There has been a large reduction of expenditure in the Post-Graduate department. The Government has absolutely no cause of complaint now. Then why keep up the strife any longer? As I said on a former occasion, if there be good will and an honest desire to settle differences, the whole difficulty can be easily surmounted within a short time. Where there is a will there is a way. Eliminate personal considerations, do not ask to humiliate the University, and there will be no further difficulty. I appeal to the Minister of Education to take a broad statesman-like view of the whole question and to remember that the progress of a country depends more on University education of the right type than on primary education. I cannot think that the Minister of Education really wishes to go down to posterity as

the man during whose time the Calcutta University was ruined. The policy he is pursuing is dangerous. It has brought him to the very verge of the inexpiable sin of killing his own *alma mater*, the greatest University of India. It is to be hoped that he will be saved from this disgrace even at the eleventh hour.

Rai Bahadur Dr. Chunilal Bose :—I very much regret I have not been able to agree in many of the findings of my colleagues. Therefore, I cannot support the resolution which has been moved. In the first place, what appears to me the most regrettable thing is that the Committee got an opportunity to improve the relations between this University and the Government and it has let that opportunity slip. Next, the line of action which the Committee has recommended to the Senate for adoption is one which, in my opinion, is further widening the gulf, and the very strained relations between the parties will make it impossible to advance the cause of higher education in the province. So much has been said about the conditions of the grant that I shall make only a few observations on that matter. The grant is conditional. Every grant made for any purpose is almost invariably conditional. The grants which the Government of India has hitherto made to the Calcutta University, or the grants which we have received from private persons, were all subject to certain conditions which we never hesitated to accept. The Committee have advised us to reject the grant, because it is conditional. But there is nothing in the conditions which makes the grant unacceptable. In the first place, in the Government letter the advice has been given, which is based on the report of the Accountant-General who finds certain irregularities in the system of our keeping accounts, framing budgets, and recording Proceedings, that our system of keeping accounts should be put in order. Therefore the Government imposes the condition that the accounts should be kept properly and our house should be put in order. This is at least one of the few conditions. Now, as regards the balance sheet and the proceedings, so far as the conditions are concerned, we have already adopted certain budget rules which, I think, for the most part comply with many of those conditions, so that I do not think there is any cause for quarrel between us and the Government in this matter. In all fairness it must be said that the irregularities and the defects noticed by the Accountant-General, in spite of the pleadings of the Committee and the arguments put forward in defence, do exist, and it is only reasonable to accept certain budget rules whereby we can put our house in order. You should not incur any expenditure for

examination fees of the students. When this proposal was brought before the Senate, it was my privilege to oppose it, although the opposition was in a minority and the majority carried it. After that a very strong agitation was set on foot all over the country and there were also protests in the papers, against the action of the Senate. The agitation was carried on all over the province. Can you blame the Government in refusing the proposal of the Senate in deference to public opinion? These are some points in the findings of the Committee, in which I do not agree. There is another matter—the Committee ought to have come to a constructive conclusion instead of coming to the conclusion that we should reject the Government Grant.

The Hon'ble the Vice-Chancellor :—No, we have not rejected it.

Dr. Bose :—The Committee should have made some friendly suggestions as to how to meet the present deficit. This I think is what we expected of the Committee. Before the Senate accepts this resolution, I would simply ask for the assurance how the deficit is to be made up. Otherwise, it would not be wise for the Senate to adopt this course.

Rev. Dr. J. Watt:—What will be the position of the Senate if the resolution is accepted in the terms in which Sir P. C. Ray has proposed it? Does it mean that the grant will be refused on the conditions offered?

The Hon'ble the Vice-Chancellor:—I am not in the secrets of the Government of Bengal. Why assume that if the Senate were to say that it is not prepared to accept the conditions, the Government of Bengal would say—here is the rifle at your head and we would shoot you down?

Rev. Dr. G. Howells:—I am sorry Dr. Chuni Lal Bose does not see his way to accept the main contentions of the report. It is undoubtedly a sound principle that no institution should spend money beyond its income. That applies to individual institutions and also to Government. When we hear that the Government of Bengal has a deficit of some 87 lacs, and when it comes to us with a very superior air and seeks to chastise us for the few lacs that we have gone beyond our income, it is only human nature to reply—"Physician heal thyself." At any rate it does not strike me that the Government of Bengal is in a strong position there. As to the conditions, I first thought that they might be accepted by the University with a little protest. But the more I studied the matter and the more it was discussed on the Committee, the more it became perfectly clear to me that there was a spirit behind these conditions that was really dangerous to our existence as an autonomous institution. We have these

conditions to-day. Accept them and to-morrow the conditions will be much more rigid. In order to get rid of the temporary difficulty should we yield and go against the best traditions of University administration all over the World? Instead of remaining an autonomous institution should the University become a department of the Government? At any rate, as educationists, we should feel very little interest in being simply a Government Department. The conditions and specially the spirit behind them are against the traditions of progressive Universities all over the World. In view of all the facts placed before you in the report, can a single autonomous University of standing in the Western World, for instance, accept conditions of this kind? Oxford and Cambridge would certainly reject them without hesitation and say—"We will go on as an inefficient institution rather than yield to conditions of this kind." I admit we shall be in difficulty. But it seems to me that we shall have a great deal more of public sympathy than hitherto, when the facts will become known after the publication of this report. I do not think for a moment that the people of Bengal will consider that we have done our duty if we sell our birth right in this matter. When Sir P. C. Ray spoke of the possibility of appealing to the people of Bengal and going from door to door with the Vice-Chancellor at the head of the procession, I noticed there was a little smile, yet the University must have real national support. Its defence must be based on the support of the people. We, Welsh people for instance, look back with pride when more than 50 years ago the first University College was established in Wales; it was a feature of real pride to us that one-fourth of the population contributed their mite or something bigger than their mite to the foundation of what was known at that time as the "University College of Wales." Surely rather than become a mere department of Government with all its red tape, with all its political expedients and intrigues, we would rather go from door to door. We cannot yield to humiliating conditions. We are here to maintain the great principles that are associated with University life, and it must be recognised that when a University becomes a department of Government, things are too often decided from the standpoint not of education but of political expediency. Such an atmosphere is fatal to the real educational character of our institution or of any similar institution. Therefore, while I deplore the difficulties of the position, I am strongly against selling our convictions. It will be a betrayal of the great trust imposed on us as a University, if we yield, and with no small regret I have come to the conclusion that we have no alternative but to refuse the conditions.

Sir Asutosh Chaudhuri:—I accord this resolution my whole-hearted support. I regret there has been a dissentient voice with regard to it. I fear my honoured friend has not very carefully studied the report, so carefully as it deserves to be studied. The recommendations are set out in the report and I do not find there is such recommendation as referred to by him. Conditions ought not to be imposed without consideration. Conditions may destroy the authority of the institution. Authorities are cited in the report itself in support of this view. The Government has laid down various conditions. Do you think the University is devoid of common sense that it sanctions schemes for which there is no money forthcoming? There is no ground for such complaint. In February, 1922, our letter said *money was not needed for new work to be undertaken*. Is it conceivable that the Government should have misunderstood it? We say there is so much in deficit. We do not want money for new schemes. We wanted money to meet the deficit. We said it was required to meet liabilities which have been already incurred. Is there any indication in the letter, any ground for suspecting that it was intended for any other purpose? Has there been anything said or done by the University since that time which indicates that we wanted to expand the Post-Graduate or any other scheme? There is no justice in the complaint made by my friend Dr. Chunilal Bose. Why are we forgetting the change which has taken place so far as the constitution of the University is concerned? When I came out from England after finishing my career in the Cambridge University I thought our system defective. The Calcutta University was said to have been founded upon the basis of the London University. I examined that statement. I remember having spoken in the Albert Hall when I likened the Calcutta University to a cabbage. In those days the Calcutta University was very much like a cabbage—one of the quickest and completest of vegetables without much substance. So far as the London University was concerned they had elected Fellows. I described the Fellowship here as the last rag of dignity in the gift of the Crown. That was one of the reasons which I believe led the Government to say, "we shall allow the graduates of Calcutta to elect." I am one of the four Graduates who were elected at the very first election. The complaint in the country was then that the Calcutta University was not a teaching University but merely an examining University. In 1904, in February, during Lord Curzon's time, the University Act was enacted and the Act received sanction in March of the same year and the University was coverted into a teaching and research University. We were asked to frame

The University of Calcutta & Acharya P.C.Ray 1906-1944

regulations under that Act,—I was a member of the Senate then. We did our best to frame regulations but we were late. Without extending the time the Government disregarded the resolutions as framed by us as they were incomplete and appointed a Committee for the purpose of framing the regulations. Chapter XI of the Regulations says that *there shall be Post-Graduate Teaching in Arts and Science.* Grants came from Lord Curzon. From 1904 to 1910 and 1911 we received grants. Then question arose what was to be done about Post-Graduate Studies. The matter was referred by the Government to a Committee called the Post-Graduate Committee. In 1916 the Post-Graduate Committee made its report. The Government wanted it to be placed before the Senate and the Senate approved of that report. The Government then sanctioned that scheme. The report set out the details of the work that was being done. The Government having sanctioned this in September, 1917, the University established Post-Graduate teaching. Now I ask—was Post-Graduate teaching established without the sanction and support of the Government? If we have sinned by taking up the work, we have sinned at the instigation of the Government. But we have not sinned and we claim to have done good work with the sympathetic support of Government. We expected the Government to support us. We made frequent appeals. When these appeals were made, was there a straightforward refusal at any time? There were ambiguous replies—"your appeal will be considered in connection with other educational requirements." This is the way they went on putting us off. In the meantime, you know what happened. New Delhi is being erected, but there is no money for the Calcutta University. We asked for money for a good Chemical Laboratory for the Presidency College, but no money was forthcoming although there was plenty of money for the ball room at Belvedere called the "Darbar Hall." We apprehended and the Government knew very well that during 1919 and 1920 there would be a deficit. The reason for the deficit is fully set out in the report. There was a leakage of University questions which involved us in loss to the extent of 60 thousand Rupees. That was unforeseen. Then there was the Non-co-operation movement and our fees fell off. The University pointed out that owing to the Non-co-operation movement the fees had fallen off. There were protests that we had exaggerated the effect of the movement. We had not done so. A careful note was made to show how the matter stood, which has not been challenged by any one. The University had expected that their income would continue to grow but the Non-co-operation movement sapped our strength. We believed

that financial help would be forthcoming from the Government but it did not come. We have starved, but have not ceased to live. The University will live long and live to grow and bring glory to the country. What we have said in the report now before you is this. We have asked the Government—will you kindly give us help? We want your help. What are the conditions to be imposed? Can the Government say—we pay so much to you but you must not teach the Vedanta, or the Quoran? Cut down such and such branches of study. Can it claim to have that right? We ask—Is money forthcoming to give effect to the Act? We regret this has been lost sight of. I am tempted to cite the case of a big Zemindar who did not grudge paying lacs in litigation but curtailed his fish allowance of six annas a day. As for a friendly talk with the Minister, which has been suggested, what will be the friendly talk about? Friendly talks are sometimes effective. They are particularly effective in domestic affairs. The boudoir is a very desirable place for settling domestic disputes. But with regard to public matters, a private conference has never proved to be useful. I refer Rai Bahadur Dr. Chunilal Bose to the policy enunciated by Mr. Herbert Fisher as Minister of Education of Great Britain, which has been quoted with approval by the Royal Commission :—"No one appreciates more fully than myself the vital importance of preserving the liberty and autonomy of the Universities within the general lines laid down under their constitution. The State is, in my opinion, not competent to direct the work of education and disinterested research which is carried on by Universities, and the responsibility for its conduct must rest solely with their Governing Bodies and Teachers. This is a principle which has always been observed in the distribution of the funds which Government has voted for subsidising University work; so long as I have any hand in shaping the national system of education I intend to observe this principle." This is exactly what we are saying. I refer you to another passage quoted from the report of the Royal Commission by Sir Harcourt Butler in the Convocation address delivered by him on the 4th November, 1922, as Chancellor of the University of Allahabad :—"That the attempt of the State to control opinion in the Universities and Colleges broke down in 1688, and was never revived, is a great fact that has distinguished our University system from that of France and Germany. It is a precious part of our intellectual and moral heritage as a nation. If there were any danger that grants of public money would lead to State interference with opinion in the Universities, it might be the less of two evils that they should decline in efficiency, rather than lose their independence in order to obtain adequate means. But the ways

The University of Calcutta & Acharya P C.Ray 1906-1944

of thought and feeling of the modern British Community are hostile to any development in the direction of State control of the academic spirit, and the public grants already enjoyed by the old Scottish and new English Universities have not led to State interference with opinion and tendency in those Institutions." We ask the same to be done in our case. We are living from hand to mouth. This state of things is not confined to the poor Calcutta University alone but exists also in bigger Universities. Has it ever been suggested to the English Universities that money was to be paid to them upon similar conditions? Sir Alfred Ewing, Vice-Chancellor and Principal of the University of Edinburgh, while dealing with the question of a Reserve Fund in a University, said :—" I have yet to find the University which builds up a reserve fund, as a submarine cable company builds up a reserve for the renewal of its cables, knowing that some day or other the crisis must come. Our poverty has made us opportunists; we live from hand to mouth. Probably we are right to concentrate on present efficiency—to take no thought for the morrow. If saving can be carried out only at the cost of usefulness we do well not to save." Do they suffer from want of intelligence? Bureaucratic interference is frequently pettifogging and stupid red-tapism, as the *Times* once said. Should we not be congratulated on our loyalty to the University? Should Government raise a false issue and come and say that we must build a reserve? They know that as constituted we cannot now build it up so far as our fees are concerned. The Sadler Commission says that fee income is precarious. It must vary from year to year. When we wanted to raise it Government felt it should yield to public clamour against it and did not let us raise then. On their suggestion the tuition fees of the Post-Graduate classes have been raised. But the conscience of the Government sleeps from time to time. The Government considered our proposal for increasing the examination fees as a desire to slaughter the innocents. I doubt if I made a wise suggestion while talking with a member of the Executive Council some years ago at Simla that an Indian should be made the Minister of Education in the Imperial Government, because education was a matter essentially [illegible]. I thought then that was the best thing to do. I do not know I should be prepared to support that in its entirety now because an English graduate carries with him the traditions of his *Alma Mater*. I regret matters now under discussion should have taken such an acrimonious turn. I fear there may be invisible hands in the matter, but although Ghosts may be abroad they avoid open day light. I think it is our duty to support this report. I beg that you will accept the report which has to-day been presented to you.

Mr. K. K. Chanda :—We know the Minister cannot grant any money without the sanction of the Council. I do not know how the Minister has taken that attitude about imposing conditions. There was no discussion about it at the time. We also find that he has made a deviation ; in response to our appeal for meeting the deficit of five lacs, only half that amount has been voted and the Minister directs us to pay the salaries of the teachers at once.

Mr. Pramathanath Banerjee :—Out of compassion !

Mr. Chanda :—I do not know how the Minister directs that out of the grant of two and half lacs the teachers and the examiners should be paid at once. I do not know how the matter stands. After all, the conditions are imposed by the representatives of the people not by the Bureaucracy. My friend Dr. Haldar seemed to have doubt whether the Minister was the representative of the people. Is it a sound thing to say that it is safe to place the University under the Government ? Well, Sir, we are told there is a responsible Government in this country now. Some people believe it and some say it is only the first instalment. I find some difficulty in distinguishing it. Every student of constitutional history knows that to make responsible Government successful in the country, there should be two parties, one for the Government and the other, the Opposition. What is done by one party, is undone by the other party. Once you make education a part of politics, the result will be disastrous. Dr. P. C. Ray has placed before you opinions of several distinguished people. I only hope our first Minister of Education will accept these authorities. You will find other opinions also quoted. Sir Asutosh Chaudhuri has said that the Government of India sanctioned the scheme. So it was morally bound to support the scheme. Lord Chelmsford himself supported it and so also did Lord Ronaldshay. The Commission also recommended that an immediate grant should be made to the University towards the maintenance of the Post-Graduate department. Is the University to blame then ? Is it our fault that the Government has not helped us ?

Mr. Herambachandra Maitra :—I am sincerely grateful to our friend Dr. Chunilal Bose for having forcibly presented to the Senate his view of the case. There is no life where there is no difference of opinion. May I invite the attention of the Senate to one fact of vital importance which has been pressed upon our attention and which, I am sorry to find, has been lost sight of by my distinguished friend ? It is a report of the Accountant-General, upon which is based the grave charge that the financial administration of the University

The University of Calcutta & Acharya P.C.Ray 1906-1944

has been anything but satisfactory. This makes it necessary for us to consider the report very carefully. The Accountant-General has stated that three lacs out of a total deficit of five lacs and a half is due to causes over which the University had no control. Shall we be far wrong in coming to the conclusion that the Government, in declaring the financial administration of the University to be unsatisfactory on account of a deficit which has been so largely due to causes beyond our control, laboured under preconceptions of which it was unable to divest itself in dealing with this question? It is quite clear that it has not viewed things in the dry light of truth. If only the Government had followed the ordinary procedure of sending the report of the Accountant-General to the Syndicate and waiting for its reply before giving judgment, there would have been no occasion for this most unhappy controversy, which no body laments more than I. It is most desirable that there should be a friendly understanding between Government and the University. We are not free from shortcomings. We are human beings and ours is a human institution. But let us place the report of the Accountant-General and the reply of the Committee side by side, and say whether it is just to base a charge against the University on that report. My learned friend said that he was unable to give his support to the views of the Committee in spite of its pleadings. But I find no "pleadings" in the Committee's criticism of the statements made by the Accountant-General. I find an array of facts drawn up in a manner which made me recall to mind Lord Morley's pronouncement on Burke's *Report on the Lords' Journals*. I may now cite the Committee's reply to the charge so often brought against us by the public that the University has been lavish in expenditure. I see not far from me a friend who on one occasion advised us to economise in order that we might get out of the difficult situation in which we are now placed. Very sound advice. And what has the University done? It declared its readiness to economise *before any criticism hostile or friendly emanated from the Bengal Government*. The Registrar said in his letter of the 14th February last to Government: "It is necessary to point out that no fresh liabilities are being incurred. Wherever practicable, vacancies on the staff have not been filled up; when it has been found absolutely necessary to fill up a vacancy, a person has been appointed for the shortest possible term, and on the lowest pay acceptable." It is much to be regretted that in spite of this we should be repeatedly told that the University has gone on increasing expenditure and does not agree to cut down expenses. My friend Dr. Bose says that whenever there has been a grant of money, conditions have

The University of Calcutta & Acharya P.C Ray 1906-1944

been imposed. We are willing to accept conditions consistent with self-respect. Government officers are deputed to examine our accounts, and they audit the accounts year after year for ten months in the year. In spite of this we are asked to send accounts to the Government every month. To do this would be to convert the University into a department of the Secretariat.

I wish to say a word on the post-graduate classes maintained by the University, from the point of view of Indian teachers. My illustrious friend Sir P. C. Ray has made out a case for the Science College with great ability. I feel I ought to say something for the University classes in Arts. I once drew the attention of my learned friend Mr. James to the fact that the noblest sentences in Plato's *Republic* read like translations of the *Upanishads*; and he said it was the duty of Indian scholars to point out these coincidences of the best thought of the East with the teachings of great Western thinkers. We Indian teachers have something to say on the relations of the literature of our country to the literature of the West—we have something to say on the transcendentalism of Germany, England, and America from the Indian point of view. The University post-graduate classes have proved an incentive to work on these lines for many of us. They have created opportunities of useful work for us which we did not before enjoy.

We are grateful to the Committee for its thorough investigation of the questions involved. But I am constrained to say I wish certain passages of the Report had been omitted or altered. I confess I do not like the reference to inflated salaries and bill allowances. If people in high places throw off the mantle of dignity in which they ought always to be clothed, we as an academic body ought not to imitate their example.

Mr. Jnanranjan Banerjea:—The poet has sung—

> "Strange was the sight and smacking of the time,
> And long we gazed, but satiated at length,
> Came to the ruins."

I am reminded of these lines in connection with statements made about the finances of the University by members of the Bengal Legislative Council, by the Accountant-General and the Minister for Education, as well as the Rai Bahadur for whom I have great respect and esteem. I listened very patiently to the utterances of the Rai Bahadur, just as I very carefully studied the utterances of the members of the Bengal Legislative Council, and the Minister for Education, and the Report of the Accountant-General. The more I have studied these, the more,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Sir, has the feeling been brought home to me, that, in the words of the poet, we have witnessed strange spectacles and seen strange sights. The first attack that was made by the Minister for Education on this University, was made when there was no occasion for it, as his department had not been attacked. The Minister is expected to be on the defensive only when his department is attacked, but strangely enough, on this occasion he went out of his way to attack the University and charge us with "criminal and thoughtless expansion of the Post-Graduate Department," without any occasion for it. Again, when the proposal for the appointment of a Committee to look into the finances of the University was made in the Bengal Legislative Council, a member of the Council went the length of saying that it had been alleged that there were members of the Post-Graduate staff who were not equal to their work. Again, another member of the Council said there were Post-Graduate teachers who had neither the knowledge nor the training necessary for teaching their subjects. He also said that the unusually high percentage of passes at the Matriculation Examination revealed an abnormal state of things, as if sickness was the normal condition and a large percentage of failures was consequently normal. Sir, such statements were fraught with the gravest consequences, and strange indeed is the sight we see and have been seeing for some time. Later on, another strange scene opened. The Accountant-General wrote a report containing statements of an erroneous character. The Report now before the Senate fully shows that in connection with the Ramtanu Lahiri Fund and other things, the Accountant-General has made erroneous statements, and yet, the Minister for Education, without waiting to hear what we have to say passed judgment on us to the effect that the financial administration of the University has been anything but satisfactory. Sir, what shall I say? When I consider the Rai Bahadur's utterances, I am fully confirmed in my belief that we are seeing strange sights. I yield to none in my loyalty to Government, not even to the Rai Bahadur. You may ask me why I have singled him out. Because, Sir, as ex-Sheriff of Calcutta he is a most prominent citizen. I claim that though like him I am loyal to Government, and render unto Cæsar the things that are Cæsar's, I render unto God the things that are God's. Now, loyalty to truth is loyalty to God, and hence, if it is necessary, on any occasion, in the interest of truth, to criticise Government, I am bound to do so. The Rai Bahadur has said that the Report of the Accountant-General is that of an expert, and therefore ought to be accepted. But experts are human beings, and to err is human, and the Accountant-General is not an exception to that. This has been conclusively proved in the Report of the Committee

The University of Calcutta & Acharya P.C Ray 1906-1944

now before the House. Then again the Rai Bahadur has said that the Government of India possibly refused to enhance the fees for the Matriculation and the Intermediate Examinations, because there was a popular clamour against it. But I ask the Rai Bahadur—Does he mean to hold the view that whatever the people clamour for is right—and Government should therefore accept the views of the people on every occasion? Then Sir, it follows according to his logic that as the Non-co-operation movement was supported by a large section of the population, Government should have associated itself with this movement so that the Government might go down to posterity emblazoned in letters of gold, with those of the Non-co-operation party. The Rai Bahadur will at once see the absurdity of his contention. Again, the Rai Bahadur has said that all grants are conditional. But he has forgotten that there are conditions and conditions. The Minister for Education has laid down conditions, the acceptance of which would deal a death-blow to the freedom we possess as a corporate body, and to the rights which we enjoy as a University under the existing Acts. As an illustration of this, I refer to the condition that we should send every month an account of our receipts and expenditure to Government. Now, Sir, while I find that, in the West, distinguished men have been fighting for the freedom of Universities, passages from whose writings have been quoted in the Report now before the House, the Government of Bengal in the Ministry of Education wants to reduce the Calcutta University to a condition of slavery and servitude. Hence, Sir, I say, with all the emphasis I can command—"Better fifty years of Europe than a cycle of Cathay."

We have seen, Sir, the Government of Bengal in the Ministry of Education putting the coping stone on the proud Babel it has been rearing, not on the plains of Shinar but on the plains of Bengal, by laying down conditions which will fetter our freedom, enslave us thoroughly and put an end to our rights as a corporate body. I, therefore, most emphatically support the resolution moved by Sir P. C. Ray, for, believe me, the acceptance of such conditions as have been laid down, not only is impracticable, so far as some particular one is concerned, but most undesirable, for no one should barter away his cherished rights for a certain amount of money. Sir, the poet has said "we came to the ruins." It indicates the ruins of statesmanship to reduce the University to a state of slavery. As the University has problems of its own to face and solve, it must be granted a considerable measure of freedom and independence, for the University men are just the men fitted by their special knowledge and experience to tackle such problems. Educational

problems and connected matters require educational experts for their proper handling and this is a vision which all ought to see if the interests of the University are to be safe-guarded.

Mr. Khagendranath Mitter:—Sir, I rise to speak with a sense of diffidence, because I am in the unenviable position of serving two masters. Whichever side I may take in this debate I cannot avoid the imputation of having an axe to grind. But I have a duty to those who elected me. On an occasion like this when the very existence of the University is at stake, I shall not be justified in recording a silent vote.

Sir, the Report of the Committee is based on two very strong and incontestable propositions. One of them is that we must have education and the best amount of education. The other is that we must not tolerate interference from any outside authority. These two propositions will appeal to most people. They will appeal to me and I hope they will appeal to you. But they are abstract propositions, and I would just suggest a little caution. The report has struck me as unsatisfactory in this that it presents only one side of the case. This is very deplorable. All sides of the case must be presented in order that nothing may cloud our vision, also in order that we may have a dispassionate view of the case which is so very essential in this critical situation. The report gives the idea that the Government is guilty of a dereliction of duty. It has never given money, and our financial bankruptcy is entirely due to the fact that we are not receiving adequate assistance from the Government. To a certain extent it is true. I do not see how we can avoid the conclusion that the Government of India left us in the lurch. When our distinguished countrymen made such magnificent endowments for the Science College the Government of India did not supplement their funds. I do not know why. But the fact is there. We have not taken into account the difficulties of the Minister of Education. When the burden of this bankrupt University fell upon the new Government of Bengal, there was not much money at the disposal of the Government. Besides, there was a great volume of hostile opinion inside the Bengal Legislative Council, and also outside of it, against the administration of the University. The Minister of Education had to take that into account. Now, if I am permitted to review the history of Post-Graduate teaching in this University, I think it will be well to refresh our mind. The Government imposed the condition and the Committee accepted it that there was no prospect of any grant from the Government in the near future.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Mr. Girischandra Bose—The Senate did not accept it.

Mr. Mitter—Allow me to proceed, Sir; you will have your chance. The idea was in the mind of the Senators that the Post-Graduate department should be self-supporting.

The Hon'ble the Vice-Chancellor—No.

Mr. Mitter—After the organisation of the Post-Graduate Teaching, the first thing the University did was to go up to Government for the enhancement of the examination fees but the Government did not agree. I do not know why. It may be in deference to popular opposition. Or it may be due to the consideration that the Post-Graduate Department was based on the condition that the existing resources would be utilised for its maintenance. Then, Sir, we find that as we were struggling, we were expanding. The Government warned us against expansion beyond our means, still we went on expanding, like the frog in Æsop's Fables till we burst. Sir, you have got your limits. I cannot accept the recommendations of Sir P. C. Ray that the Science College should be an ideal college and the Post-Graduate Department should be an ideal Department even though there is no fund at the disposal of the Government.

I come now to the question of State-interference. The conditions attached to the Government Grant constitute, it is said, an undue interference with the freedom of the University and therefore "we cannot escape from the conclusion," says the report, "that the acceptance of the conditions is not merely undesirable but impracticable." Sir, this argument is more likely to succeed than the others, for some people will make a political capital out of it. In these days of non-co-operation and strikes a section of the public will only be too glad to claim a body like the University into their ranks. But Sir, that is all the more reason why we should think twice before taking such a momentous step. Do the conditions really constitute a restriction of our freedom as an academic body? First, let me ask, do the Government conditions imposed contemplate periodical inspection by the Government? Do they contemplate bureaucratic regulation? Do the Government propose to define the courses of study for us? Do they put any restriction on the appointment of the staff or on the freedom of opinion or religious or political creed of the Lecturers? This—any one of these things—will constitute State interference and I should be the last person to suggest that the University should sell its academic freedom for a mess of pottage. All the conditions mentioned in the Government letter relate to control of finance. We should

The University of Calcutta & Acharya P.C.Ray 1906-1944

not expand, they desire, till our finances improve, we should not appoint any lecturer in anticipation of sanction, lest further financial liabilities should be incurred, which we can not meet. Budget estimates should be prepared in time, so that the Senate may be able to exercise greater control on the funds of the University, the Board of Accounts should meet more frequently so that the autocratic methods of spending money may be put an end to. All these conditions without exception relate to finances and not to any academic matter whatsoever. Conditions are always irksome, and I agree with the opinion which the Committee has quoted in its Report with approval, *viz.*, "that with Government money given in large quantities will go Government control." Again "while Government money will have to be given to the Universities in large quantities and control exercised, such control means no more and no less than an assurance that the money is well and properly spent." The writer in the "Times Educational Supplement," who has been quoted in the Report before us, thinks that this assurance can be secured without any derogation from the dignity of the University.

I shall refer to one other point and I have done. This is a point to which I refer with considerable hesitation, for I am trying to touch upon a legal aspect of the question before an assembly in the composition of which perhaps the lawyer element preponderates.

Sir Asutosh Chaudhuri:—No, we are only 20 out of one hundred.

Mr. Mitter:—What is lost in quantity is gained in quality.

Sir Asutosh Chaudhuri:—We hope so.

Mr. Mitter (continuing):—Sir, I am referring to the legality of the refusal to accept the Government offer to help the University in its financial crisis. Are we justified in rejecting pecuniary help from Government, when that help is necessary to the very existence of the University? My submission is that we are not. If we can carry on without State aid, it is quite up to us to tell the Government—take off the conditions or take away the contribution. But if we cannot do without it, then I venture to think it is not open to us to reject the offer of help. The Government of Bengal has granted us two lacs and a half and promises to approach the Council for a further grant to wipe out our deficits. Can we afford to do without these grants? The offer no doubt is hemmed in with conditions, which, let us admit for arguments sake, we cannot accept. Is the University justified in spurning away the offer? Sir,

you will be able to answer the question better. We are merely managers of the University for the time being. But my contention is that the University has no right. The University is a national institution and not our personal property. So when we cannot manage it, let others come who can. If we find it beneath our dignity to accept the offer, those who will take our place may not be of the same view. In any case, the vote of the nation is necessary, before we can decide the question in the way in which we propose to do it to-day. We have no power, I beg to point out, to shut up the University and go our own way. It is a constitutional point which requires to be cleared up before we can record our vote for or against Sir P. C. Ray's proposal.

Mr. Manmathanath Ray:—I cannot agree with Mr. Mitter. He is absolutely wrong when he says that the Committee is opposed to any interference. As I read the report, the Committee is anxious that no outside authority should hamper the University in its work. Beyond this, the Committee did not go. Mr. Mitter says that there was a great volume of public opinion against the University and suggests that this circumstance prevented the Minister from making an adequate grant to the University. I shall read to you an extract from the official report of the proceedings of the Bengal Council of the 11th of July, 1922, when the demand for the grant of 2 lacs and 50 thousand Rupees to the University was under consideration. Mr. S. N. Mallik, the present Chairman of the Corporation, who must be taken to be a person in responsible position said: "To my mind, as you know, it is best to take medicine in an empty stomach. The University has been going with an empty stomach for four months, and this is just the time when we can give a drop of medicine. It will do them good, for is it not a fact that the University has now come down? Are there not apparent signs of that? Whether they are willing to say that or not, or whether their friends here so chose to admit it or not, the fact is that they have come down. They have written a letter to say that they are willing to expose all their accounts and give information to you. Why? It is only because of the hunger that is there. There is no question about that. They are coming down, and this is just the time when we should give to them that help, for, after all, we are the mightier body. It is the mighty who alone can be relenting. And who is mightier of the two? We can be relenting to those who are smaller than ourselves. They are now down on their knees and asking for money. Is this not the time when we can be relenting?" I ask Mr. Mitter, is this the public opinion to which he refers? Rai Bahadur Chunilal Bose also

will no doubt appreciate the sentiment. There is the humiliating and unreasonable character of the conditions, but the Senate must also spurn a grant when it is accompanied with such sentiment, such sense of duty, such sense of decorum, and such sense of decency on the part of those who hold the purse at the present moment.

Mr. Girischandra Bose :—I was of opinion that it would be more fitting if none of us, signatories to the report, spoke on this occasion. But one of the signatories has already spoken. The Report contains everything that could be said. I became a member of the Senate when I was rather young, and I have grown pretty old in its service. All along I have been a little bit of a fighter. I did so fight on many occasions, even if single-handed, often without a seconder. I have not yet got over that instinct of fighting. It is quite plain from the Report that I have signed. I have done it deliberately. My friend on the left (Dr Chunilal Bose) has offered opposition, which, I take it, is the sauce of debates. I thank him heartily for giving an enzyme which has set up this fermentation. Every body seems to fall foul of my friend Rai Bahadur Dr. Bose.

Rai Bahadur Dr. Chunilal Bose :—I never mind.

Mr. Bose :—Everybody is taking his name, saying some thing against and very little for him. He is quite welcome to express his views and his suggestion is that we shall be in a critical position if we do not accept two and a half lacs which have been offered, and we may have to shut up the University. Both he and Mr. Mitter seem to have forgotten that the Act of Incorporation of 1857 has laid down clearly that the Senate "shall have the entire management of and superintendence over the affairs, concerns and property of the said University." We can sell our assets, movable or immovable, if necessary. The Rai Bahadur need not be anxious as to how we shall proceed in case the Government withholds any grant.

Sir Asutosh Chaudhuri :—The Government said that we could mortgage.

Mr. Bose :—We have so much power. Look at our limitations. We are required by the same Act to submit accounts *once a year* to the Government for such examination and audit as the Government may direct. We do submit accounts every year; what more do they want? If the Senate have gone beyond their powers, I shall be the first to fight against the Senate. The Rai Bahadur is an estimable friend of mine I have a very great respect for him. But I must say that his fear as to how the University would

be run, is perhaps due to his want of appreciation of what the sons of Bengal are capable of. If we do not accept the Government grant I am sure we shall be able to run the University. If Dr. Ray goes out with the begging bowl, he will be able to capture all Bengal, even India. As for the proposal to raise the examination fees, to which reference has been made, when it came before the Senate many members of the Senate spoke in favour of it, but an amendment was moved by my humble self opposing the proposal, although my past experience was that perhaps it might fall through for the want of a seconder. I was fortunate to get a seconder in my friend on the right, Dr. Ray, who is a friend of poor students. All the members voted against the amendment excepting five.

A reference has been made to the past history of the inauguration of the Post-graduate Department, in respect of which the position taken up by me at the time has, it seems been much misunderstood. Then, as now, I consider, the said department to be the crown of the University, without which the University will be a headless lifeless corpse; what I did oppose was not the creation of it, but its method of making the Post-graduate studies a close preserve of the University. The colleges which had hitherto enjoyed the privilege were needlessly deprived of it to the detriment of their natural ambition for development and co-operation with the University. I take this opportunity of making a public declaration of my views to which I still adhere.

Sir Nilratan Sircar :—I shall take only a few minutes to deal with one or two points which have been raised by some of my friends. It has been said by Professor Mitter that the Post-Graduate Department has gone on expanding and expanding regardless of consequences. Rai Bahadur Chunilal Bose also said that our expenditure has been increased without any heed to our resources. I emphatically repudiate the charge that we framed our budget without a proper examination of the possible sources of our revenue. But all budgets are framed in anticipation of revenue and expenditure and ours were no exception. The deficit was caused by unforeseen circumstances beyond our control.

While framing our budget we could not possibly anticipate that there would be a Non-co-operation movement next year that would deprive us of a large sum. The Accountant-General has justly held that at least three lacs out of the deficit of five and a half lacs were due to causes over which the University had no control.

The University of Calcutta & Acharya P.C.Ray 1906-1944

There were also other causes, such as for instance—

(1) the loss of revenue due to the starting of three new Universities in the former jurisdiction of the Calcutta University ;

(2) the increase of expenditure on account of post-War condition ; and

(3) the increase of expenditure on account of the leakage of question papers. Any fair-minded critic would easily find that our deficit was due to other causes than *bad administration of our finances.*

Then as to the conditions of the gift. There are eight of them in one set and six others in another, the latter being the recommendation made by the Accountant-General. Of all these, the fifth and eighth of the first set are the most important. I do not wish to discuss the humiliating fifth condition which has already received much attention at this meeting. But the eighth condition is simply impossible and impracticable. It runs thus :—"All arrears of salaries and at least half the amount of the examiners' remunerations amounting to Rs. 1,75,000 up to the 30th June, 1922, should be forthwith paid." I would remind the Senate that we received the letter containing this condition by the end of August. The accumulated "all arrears of salaries" alone at that time would come up to close upon three lacs and over and above that we were to pay "forthwith" half the examiners' remuneration, and all this out of a proposed gift of two lacs and a half. I am prepared to place the matter in the hands of Rai Bahadur Chunilal Bose and Professor Mitter for the purpose of giving effect to the conditions. It is in no refractory spirit that we reject the grant, but it is impossible to act according to many of the directions.

Mr. Jatindranath Maitra :—Sir, at the fag end of this debate, I shall not detain you long. I like to draw the attention of the Senate to one particular point which has up till now escaped the notice of the previous speakers. I would refer to the second paragraph of the letter from the Secretary, Government of Bengal, Education Department,—the letter which is the subject matter of discussion at the present moment. The letter says—"when the demand for a grant was made in the Legislative Council, during the last July session, there was a strong feeling that it should be rejected." Sir, the foregoing statement seems to me not only not true, but it is my personal impression that the truth is just the other way about. The pages of the Proceedings of the Legislative Council embodying the discussion of this particular matter, which I have got in my hand just now, would corroborate my statement. I find there were only

The University of Calcutta & Acharya P.C.Ray 1906-1944

The Hon'ble the Vice-Chancellor :—It is now incumbent upon me to sum up this debate. I deeply regret that I have to ask for your indulgence to give me a hearing after you have listened to speeches for three hours. I do not deplore the difference of opinion which has been exhibited in the course of the debate, and though I have sometimes been described as a rather strict disciplinarian as regards time-limit, on this occasion I have given absolute liberty of speech, because I strongly felt that the freedom of the debate should be proportionate to the magnitude of the subject. I say in all sincerity that this is the greatest crisis in the history of this University, which I have witnessed during a period of 34 years that I have been privileged to sit round this table. Different men see the same subject in different lights, and I hope you will not consider me disrespectful if I were to set forth my views freely and without reserve. I feel that if I did not speak out what appears to me to be the essential truth, I would be guilty not only of disloyalty to my *Alma Mater*, but of treason to my country.

Let us go back for a moment to the 13th February, 1922. That evening, at 9 o'clock, on my return home from the University, I found a letter addressed to me by the Minister of Education. It was marked "confidential" and I shall not accordingly read it out. In short, it contained a request that an application should be made by the University to the Government for financial assistance on a moderate scale before the 15th February. It gave me just one day; there was no time to convene a meeting of the Senate, not even a meeting of the Syndicate. I confess frankly that my first impulse was to take full responsibility and reply that we did not intend to make an application for financial assistance. You might ask me, why I should ever have thought so. The events which had taken place in the preceding year had created such a deep impression on my mind that this, I admit, was my first impulse. You might ask me what had taken place during the preceding year. On the 5th February, 1921, Sir Nilratan Sircar, then Vice-Chancellor, had directed the Registrar to send applications to the Government of Bengal for financial assistance, after he had been favourably impressed by a conversation he had with the Minister of Education. I could not forget what had happened to those two applications. On the 15th November, nine months after the letters had been written, a reply had been received which, to say the least, was not calculated to inspire hope. The Government had pleaded bankruptcy. Apparently, bankruptcy is sinful when we are concerned, but it seems to have a very

The University of Calcutta & Acharya P.C Ray 1906-1944

different effect when people higher up are concerned. The letter of the 15th November, however, added that although the University had not sent any application for immediate financial assistance in its distress, still the Government would be prepared to consider such an application, if made. The letter indicated a complete failure on the part of the authorities to appreciate that the University required funds to carry on the work already undertaken, namely, to pay the Post-Graduate teachers decently and to provide proper laboratories and workshops for the Professors employed in terms of the great trusts created by Sir Taraknath Palit and Sir Rashbehary Ghose.

This letter was on the whole a document of an extraordinary character, and if you scan it, as I am afraid many of you have not done, you will now be able to realise its full significance. You will find it stated that the help so proposed would be given "under certain conditions and subject to certain contingencies." This was the first indication of a desire on the part of the Government to impose conditions in the event of a grant. The University had made applications to the Government after the Vice-Chancellor had felt impressed by his conversation with the Minister of Education. What was the result? We were told after nine months had elapsed that the Government were not prepared to consider the questions raised. On the other hand, when they received the report of the Board of Accounts which surveyed the whole situation and stated what the probable deficit would be at the end of the financial year, 1921-22, they recommended that we should renew our application in January with fuller details—as if "details" were not already in their possession.

In these circumstances, I admit, my original impulse was to write and say that we did not desire to apply. If I had done that, probably all this controversy, all this unpleasantness would have been avoided But surely the responsibility was great. I did not also fully realise why it was expected that the application must be sent within 24 hours. The application was, however, drawn up and forwarded on the 14th February, 1922. That is the ill-fated application which has led to all this controversy. Remember, then, the letter of the 14th February was sent on invitation. The matter was, as required by the Regulations, reported to the Syndicate at its next meeting. The Syndicate approved of the action which had been taken. We waited and waited. Patience has its limit. We waited. The Budget estimates of the Bengal Government were produced, and need I say that not one single farthing was proposed to be granted to the University to meet its financial difficulties? On the other hand, although there was no question of giving assistance

to the University under consideration of the Council, there came a most deplorable attack on its administration from the Minister of Education. I shall make no reference to that matter. It formed the subject of enquiry and examination by a Committee of the Senate and that chapter may well be taken as closed. In July, I heard that there would be a supplementary Budget and a demand would be made by the Minister of Education for a grant of rupees two lacs and fifty thousand to enable the University to meet a deficit of five lacs and forty-three thousand rupees—I take the exact words from a copy of the Budget estimates. I frankly confess I could not appreciate at the time how a deficit of five lacs and forty-three thousand could be met with a grant of two lacs and fifty thousand rupees.

The supplementary budget was brought before the Legislative Council. I am not an assiduous student of the proceedings of that Council; but so far as the reports were published in the papers, we found that there was some little opposition, though the majority was in favour of the grant. No conditions were mentioned at the time. The members of the Post-Graduate Department, starving people they were, excited the sympathy of a member of the Council, and he did not lose the opportunity to indulge himself in cruel jokes at their expense. The teachers came to me and asked anxiously if the money was really coming. They were starving; they could not feed their wives and children. I told them from what I heard that the money was not likely to come so easily as they expected. I heard rumours that conditions would be imposed. These rumours were in the streets of Calcutta. I was even told what the conditions were likely to be—some of them would, in short, be impossible to comply with. I declined to believe the rumours.

On the 25th July, 1922, the Accountant-General submitted his report to the Government. We waited. On the 23rd August, 1922, just about the time when the next following session of the Council had commenced, when it was impossible for any member to put in a question as to why the conditions were imposed, although they were never mentioned when the grant was made, the letter under consideration was issued from the Education Department of the Government of Bengal. That letter contained a serious charge against the Senate of this University. The gravity of that charge has not been appreciated. What, I ask, is that charge? The charge is that the financial management of this University has been far from satisfactory, and that charge is sought to be supported by an appeal to the report of the Accountant-General. I

The University of Calcutta & Acharya P.C.Ray 1906-1944

do not refer to the conditions at the present moment. Do you suggest to me that when such a charge has been made, we should take it lightly,—a charge alleged to be founded on the report of the Accountant-General, which, in my judgment, taken along with other facts, does not really support the charge. It was a most astonishing procedure. The Government of Bengal had received the report from the Accountant-General. They proceeded to pass a sentence of condemnation on the Senate of this University before we have had an opportunity even to read that report, to meet the criticisms which had been advanced by the Accountant-General. Has such a thing ever happened in the history of this University, or, in the history of any public Institution? Why, I ask, was this done?

We next find that before the Senate could meet to consider the report of the Accountant-General and the letter of the Government, the newspapers in Calcutta published both the documents. Clamours for the destruction of the University could be heard here and thee, and a friend of this University reported to me that there was a Tibetan dance in certain quarters. There, you find, is an assertion made by a responsible Government that the report of the Accountant-General reveals that the financial management of the University has been far from satisfactory, and, well, the sentence of death is passed. The letter was copied from paper to paper. All India read it. People in Northern India, Southern India, Western and Central India read that sentence of condemnation, before we, as members of the Senate, had any opportunity to consider that letter and that report. Was it a mere accident, or was it the result of design on the part of somebody who wanted to defame this University? What followed? The letter travelled 6,000 miles across the seas to the British Isles. We find an article in the "Times Educational Supplement," which bore internal evidence that it was inspired from, if not manufactured in, India. That article is published in the "Times Educational Supplement," which is said to have a circulation of more than 20,000 copies, and each of these 20,000 subscribers reads that notorious article headed "A Bankrupt University,"—as if bankruptcy is our monopoly. That article comes back across the seas to India. We are also not unaware of the attempt made by the Publicity Office of the Government of Bengal to get that article circulated in newspapers in India. For what purpose? The design is obvious—to influence public opinion against this University, to carry on a campaign of libel which had been launched against us. Do not take these

The University of Calcutta & Acharya P.C.Ray 1906-1944

things lightly. There is a sinister, perfidious campaign against this University. Who are the heroes we do not know,—they may be men small, they may be men big. But a survey of the history of the last three months shows that there is a well-planned campaign against this institution. This is the reason why the members of the Committee sat down to write this report. Our reputation has to be saved,—not our personal reputation, not so much even the reputation of this University, as the reputation of the Bengali race. Our calumniators forget that if this charge could be established, it would prove that we Bengalis are not fit for self-government, for has not this University for years largely been served and managed by the flower of the Bengali race?

Our difficulties have been enormous; and sympathy, active sympathy has failed us in quarters where we had a right to expect it and confidently reckoned on it. Magnify our deficiencies if you choose, but do not overlook the good that has been accomplished. No friend of this University asserts that the institution which has thus been built up amidst many obstacles and difficulties does not admit of reform. But it claims reconstruction and development on the basis of a sound and generous educational policy not destruction or curtailment according as administrators may desire. It requires help and nourishment in an ample degree, not occasional patronising compliments and least of all, incessant criticisms and directions. It is, let me repeat, not a case of "doles" to be given by way of accidental charity or compassion; we have an unanswerable claim on the public treasury.

If it is, however, assumed that financial embarrassment is an index of financial mismanagement, there is hardly an institution to-day which would be above reproach—not even such august bodies as the Government of India and the Government of Bengal would escape unscathed, notwithstanding their boundless resources and unlimited powers of taxation. This is, however, only by the way. Let me return to our Report. Its preparation was a supreme necessity. We have set out our views in the document. Pray read every single line of it. Forget your station in life; make up your mind to learn the truth, to think the truth, to speak the truth, no matter who is hurt thereby. Let me assure you that, along with each and every one of my colleagues who sat on the Committee, I take the fullest measure of responsibility for everything contained in the report, for every word and phrase that you will find there. We have spoken the truth, though truth is not always pleasant; we have done it at the most critical point in the history of modern India. Take my solemn assurance that this report was not drawn up to please

The University of Calcutta & Acharya P C Ray 1906-1944

anybody, high or low. We had one unalterable purpose in view, and that was to speak the truth fearlessly,-in the full belief that fighting for the truth was the noblest sport the world afforded. The truth must be known to everybody who has read that article in the "Times." Truth must be out; it cannot be suppressed. It must be known to everyone in Bengal, in India. We must contradict that infamous attack on this University. If anybody is-hurt, we cannot help it. Let it not be forgotten that it was not we who launched the campaign. We have always been on the defensive and we cannot but repel an attack which, in our judgment, is unjust.

Now let us come to the contents of the Report. I do not propose to discuss everything which is set out there. Many points have indeed been emphasised already. Let me, however, lay stress on one fundamental point. You have the specific statement of the Accountant-General that out of the deficit; about three lacs are traceable to circumstances over which the University had no control. I admire the courage of the Accountant-General. That fact is often ignored. Why? Let us go back to 1921. Gentlemen who are not prepared to support the motion will, I trust, remember what took place in the early months of that year. The Senate House was barricaded for days. The Vice-Chancellor of the University stood at the gate for two hours, but he could not get an entrance. The candidates for the University Examinations found it impossible to get in. A lady candidate was openly insulted when she attempted to get admission. It seemed to every law-abiding subject of His Majesty as if law and order had disappeared from what was once the capital of British India. What happened to the Colleges? The students disappeared in a miraculous manner. Government Colleges, Missionary Colleges, Private Colleges found it impossible to keep control over their students. The panic spread. The students in the Post-Graduate classes and the University Law College struck work. They were sent for. They were packed up in this hall—1,200 of them. They listened to the voice of reason of one man. Next day eighty per cent. of them returned to work. The movement however spread in the mufassil. Students vanished from Colleges in Dacca and Mymensingh. Students left the schools in Eastern Bengal by hundreds. Where were the authorities? No one amongst them would venture to come out and address the students at that time.

The Vice-Chancellor and the members of the Syndicate discussed the situation; they realised that this meant certain ruin to the schools and colleges, and that the

The University of Calcutta & Acharya P.C.Ray 1906-1944

University had received an almost death-blow at the hands of non-co-operation. It was thought expedient that a statement should be drawn up. We sent round a circular and we found out that forty-two per cent. of the students had disappeared. People in high places, very responsible persons they were, said that non-co-operation was on the surface, that it was a dying cult and that the students would come back after the summer vacation. But what happened? We discovered the facts which are set out in the Appendix to this Report. The position seemed appalling to any man, who was prepared to face the situation. The statement was submitted to the Chancellor. It was forwarded to the Education Department of the Government of Bengal. We have not learnt up to the present moment whether any notice was at all taken; our letter was at any rate never acknowledged. My learned friend Sir Asutosh Chaudhuri told me that my forecast was treated with contempt in high and responsible quarters. It was not so, however, with Lord Ronaldshay; when the statement was submitted to him, he decided to go into the matter himself. He did so. I was authorised by him to make a public statement, a statement before the Senate, because the position seemed to him to be of unsurpassable difficulty; he wrote to me a long autograph letter, discussing the details and agreeing with me in the view of the situation. The statement which I then made is published in the Appendix. We sent copies of that statement to the Education Department of the Government of Bengal. We have not heard that any notice was ever taken. We have not been careless, we have acted with the utmost caution, but we have not been able to get others to realise our difficulties. My judicial office makes it impossible for me to have anything to do with politics; so I express no opinion about non-co-operation; I am free, however, to speak of its destructive effect on our educational institutions. We gave repeated warnings, warnings which have never been heeded. Why this aspect has been ignored, I need not pause to enquire. Does the Accountant-General's report really show that our financial management has been unsatisfactory? Or does it show that the present financial situation is due, to the extent of at least sixty per cent., to causes over which we had no control? I assert, without fear of contradiction, that the statement made in the Government letter, which was widely circulated, has no foundation in fact. I am not concerned with motives, but I do feel that at that stage no condemnation should have been passed on us. The Government of Bengal would have acted wisely, if they did not commit themselves to any opinion before they knew what the University had got to say. This is the root question. The whole of the letter is

The University of Calcutta & Acharya P.C.Ray 1906-1944

dominated by one idea, namely, that our financial management has been anything but satisfactory, that our financial difficulties are the result of our mismanagement; the inference follows that we should not be trusted and should be put in chains. This is the conclusion. If the charge of financial mismanagement does not hold good, where is the justification for the imposition of conditions?

I do not propose to discuss all the points raised in the report of the Accountant-General. We have dealt with them in our report, but there is one fundamental point which has not been mentioned by speakers this evening. The Accountant-General has proceeded to criticise the educational activities of the University. I am constrained to enquire, what are the functions of an Accountant-General; what are the functions of an auditor? An auditor is an official whose duty it is to receive and examine accounts of money in the hands of others, who verifies them by reference to vouchers and has power to disallow charges incurred without authority. It is not the function of an auditor or an Accountant-General to discuss the question of policy of an institution. Where is the Accountant-General, who will come forward to examine the accounts of the Government of Bengal and say,—you have a deficit of forty lacs, sixty lacs, or eighty lacs, so you should not have four members of the Executive Council, or three Ministers, or so many Divisional Commissioners, or District Officers, or Superintendents of Police? Where is the Accountant-General who will come forward and say that Mr. Montagu or Lord Chelmsford did not launch forth a wise policy? Where is the Accountant-General who can say, while auditing the accounts of the Military Department,—you do not require so many officers or so much artillery? Where is the Accountant-General who, while examining the accounts of the railway system, can say,—you do not require such a big establishment, so many departments, officers, or, for the matter of that, so many engines? The Accountant-General is trotted out as a great authority on educational matters. But, I ask, is he here to review the educational policy of the University? That must be done by persons qualified for the task, conscious of the requirements of a great University for the people of this country. Do not, pray, be frightened by his criticisms of the educational policy of this University. He went beyond his mark, he made a grievous mistake, when he remarked that the ordinary function of this University was to hold examinations. The Accountant-General is an intimate friend of mine. He is no doubt a very capable and distinguished officer of the Finance Department. But University Education is not his speciality. I make no secret that I read with

astonishment the venture that he had made and I thought that we might probably hear some day that the Accountant-General had walked into the Sanskrit College and said: "You do not require so many Pandits." But what will happen if Pandit Asutosh Sastri is sent about his business?

I must mention to you some of the extraordinary blunders he has made, even while the Accountant-General was within his province. I would refer you to his remarks about the Ramtanu Lahiri Fund. When I read them I said to myself that I must have forgotten the history of this University. I never knew that a farthing had been contributed to that fund. The Accountant-General misconstrued the whole thing. Then, again, he knew nothing of the work of the Carmichael Professor, and, unconsciously perhaps, he made the same mistake about the Carmichael Professorship Fund. The people who have helped us in that great work include neither members of the Government of Bengal nor the Accountant-General. They are Sir John Marshall and Mr. Rama Prasad Chanda.

But the portion of the Accountant-General's report that took my breath away was the charge with reference to the University College of Science. The Accountant-General has taken out three items, and he has said that, in each of these cases, the amount actually spent exceeded the budget grant. The inference, therefore, is that there has been a "loot" in the University College of Science, and Sir P. C. Ray, Professor Raman, and others have gone off their heads! But, really, does the Accountant-General portray the whole picture? What about the other Departments? What about the next year? Why does not the Accountant-General mention that in all other departments the expenditure was kept within the budget grants? We have fully met this charge in our report. A friend of mine in the Accounts Department was justifying the Accountant-General. He said that it was his business to find faults, to condemn people and not to give praise even where praise was due and legitimate. He then gave me a parallel, saying that when an Inspector of Schools or Colleges visited an Institution, it was his business, at least so the Inspector thought, to find faults and criticise people, and never to praise anybody. But, unfortunately, the remarks of the Accountant-General are apt to create the impression that there is a screw loose in every department of the Science College, and that scientists like Sir P. C. Ray, Professor Raman, and others cannot be brought under control by the authorities.

Then, there is one other point which has not been touched upon by any one round this table, and that is about

The University of Calcutta & Acharya P.C.Ray 1906-1944

the amalgamation of funds. I must at once point out that the University has as many as 150 separate drawing accounts in the Imperial Bank, and the assertion which is often emphatically made in many quarters that our funds are all mixed up has the merit of being untrue. In one portion of the Government letter, the University is asked to accept the suggestions of the Accountant-General. That expert officer suggests that some of the funds should be amalgamated. One of the conditions imposed by the Government, on the other hand, is that the funds should not be mixed up. Which of these two suggestions should be carried out? We cannot perform impossibilities. We cannot keep all our funds separate and at the same time amalgamate some. But, really, whether we have a separate drawing account in the Bank in regard to each fund or not, has nothing to do with the question of financial stringency. It does not at any rate add a penny to the funds; it is merely a question of keeping accounts. We were fortunately able to find very weighty precedents for the course that we have adopted. We find that the Government of Bengal from time to time received grants from the Imperial Government for the use of this and another University, which were merged in their own accounts and not kept separate for the benefit of the Institutions concerned. Do not imagine that I blame the Government of Bengal; I only say that example is better than precept.

Then come the conditions.—As we have demonstrated in our Report, the conditions, taken as a whole, do disclose a desire on the part of the Government to obtain control over the affairs of the University in a manner not contemplated by the present law. I have already observed that the idea of imposing conditions did not originate with the Government after the receipt of the Accountant-General's report. In their letter to the University, dated the 15th November, 1921, the Government explicitly stated that any help that they might render to the University would only be "under certain conditions." And, you should not forget that the Accountant-General submitted his report eight months after this letter had been written. No conditions were imposed by the Council, and a constitutional question has been raised as to whether the Minister has properly treated the members of the Council. I am not sure whether it is fortunate or unfortunate that I am not a member of the Bengal Legislative Council. One gentleman thus solemnly asked me, "*If* you had been treated like that, what would you have done?" I only said, "Had I been there, no Minister would have done so." However, let that alone.

The University of Calcutta & Acharya P C.Ray 1906-1944

My friends Rai Bahadur Dr. Chunilal Bose and Mr. Khagendranath Mitter have said, "Accept the conditions." I regret I cannot act upon their advice. It is manifest that there are conditions which we cannot fulfil. These are conditions which—I cannot make out why—have not been mentioned by the Rai Bahadur or Mr. Mitter. We are asked to give the assurance that we shall carry out the recommendations of the Accountant-General. One of the recommendations is that the deficit should be wiped out. I have not got an Alladin's lamp at my disposal to work out that miracle; some future Vice-Chancellor may perchance have it and accomplish the feat. But, really, how are we to do it? Everybody knows that we have no cash available. The Government of Bengal propose to give us 2½ lakhs. If we accept the conditions, the Government may well ask at once, "Have you wiped out the deficit? Why have you not sold the Durbhanga Building? Surely you should have done that and adopted other similar drastic measures to carry out your undertaking." There is, indeed, the suggestion that we might mortgage our immovable property. All I can say is that people live to learn. The Government of Bengal desired that we should make an application for financial assistance. Pursuant to that request, we sent an application. We asked for a grant, and nine months elapsed before we were offered an inadequate grant, clogged with conditions and accompanied by valuable advice and suggestions. What is the advice? Why, mortgage your immovable property. We can only turn round and say, "Thank you, Sirs, we do not need advice of that description." I am afraid we might find it extremely difficult to find a mortgagee for the Durbhanga Building; but if any of my friends opposite will help us to dispose of some of the University property, such as books and laboratory appliances, he will earn the gratitude not only of the present but also of every future generation.

The Rai Bahadur asserted that when private citizens made gifts, they also imposed conditions. When Sir Taraknath Palit sent for me and asked me whether we would accept his gift, what conditions did he impose? Did he ask us to send accounts to him every month? I admit that he urged that his money should be applied in the maintenance of Chairs which should be held only by Indians. Pray, do not for a moment overlook the spirit in which gifts are offered. Did Sir Taraknath Palit and Sir Rashbehary Ghosh ever desire to insult us or humiliate us? If the Government said that they proposed to send us 45 lakhs in memory of Sir Rashbehary Ghosh, Sir Taraknath Palit, or Kumar Guru Prosad Singh of Khaira, and made it a condition that the amount should be spent on the College

The University of Calcutta & Acharya P.C.Ray 1906-1944

of Science, it would be a matter of rejoicing, and we would never think that the condition was intended to embarrass us.

Pray, do not be misguided by phrases. There are conditions and conditions; the conditions which are proposed by the Government are, some of them, the badges of slavery. I would urge all of you, as also those who desire to impose conditions on us, to make a careful study, in this connection, of the Report of the Royal Commission on the Universities of Oxford and Cambridge. Here let me emphasise in the clearest possible terms that under the Act of Incorporation, our accounts are audited annually by officers deputed by the Government. That audit has been regularly conducted ever since the foundation of the University and is an elaborate operation spread over several months. We welcome such audit of the accounts which we have to submit once in every year in accordance with the statute. But, why this demand for the monthly submission of the accounts? Is it maintained that because the Government offer us financial assistance, they are entitled to utilise our embarrassment for the purpose of imposing conditions not contemplated by the statute?

We are all aware that the Government of Bengal have secured from the Government of India a remission of sixty lacs a year for three years, call it by any name you please, a grant, a gift or a concession. Have the Government of Bengal furnished the Government of India with a written undertaking that they will not embark upon new ventures till their finances improve? Have the Government of India imposed the condition that the Government of Bengal would submit monthly accounts to the authorities at Delhi and Simla for all time to come? Have the Imperial Government asked the Local Government to surrender their autonomy even for a limited period, in return for the gift of one crore and eighty lacs?

The truth is that the conditions which the Government seek to impose on the University disclose a most regrettable spirit of distrust. Let me assure you that I fully appreciate the responsibility of keepers of public funds, however temporary or transient their custody; they are always apt to be oppressed with anxiety lest the funds should be misused or misapplied. We, on the one hand, claim to be treated as the trustees of a great national institution, who are able to realise their responsibilities. On the other hand, we urge the custodians of the public funds to realise the paramount need of a great University for the Indian people. We maintain that we have accomplished good work and that our contribution to nation-building—highly appreciated elsewhere—is not a negligible quantity. If the Government are fully convinced that this is true, and that

public funds are at least as safe in our hands, as in theirs, let them give us money. If, on the other hand, they feel that our conduct has been dishonourable, that we have been wasteful spendthrifts, let them not trust us with money; for, deep distrust makes the giver and the taker alike miserable.

It is fortunate for the dissenters that our late lamented venerable friend Sir Gooroodass Banerjea is not here to-night, or else, I assure you, this hall would have rung with his protest against the manner in which the University is being treated by the Government. He would not have put up with it. He was sweet and amiable; but he was just, fearless, and self-respecting. It is fortunate that you have not amongst you here the late Dr. Mahendra Lal Sircar. It is fortunate that you have not amongst you the late Dr. Rashbehary Ghose. It is lucky, indeed, that you are able to treat the matter so lightly when they can no longer be amidst us. It is fortunate, I say again, that there is no longer amongst us Mr. Anandomohan Bose or Mr. Kalicharn Banurji, or Bengal would have reverberated with their voice of protest against the treatment of this University by the Government.

Take it from me that as long as there is one drop of blood in me, I will not participate in the humiliation of this University. This University will not be a manufactory of slaves. We want to think truly. We want to teach freedom. We shall inspire the rising generation with thoughts and ideas that are high and ennobling. We shall not be a part of the Secretariat of the Government. Forget not that what is offered is not even a periodical grant, much less a perpetual grant. What is the offer? Two and a half lacs! And you solemnly propose that you should barter away your independence for it. Mr. Mitter raised a question of law. What authority, I ask, have we, who are assembled here to-night, to barter away for ever the rights and privileges of this University? What will Bengal say? What will India say? What will the Post-Graduate teachers say? They will resign to-morrow. They will go into banishment rather than take money under these humiliating conditions. What will posterity say? Will not future generations cry shame, that the Senate of the University of Calcutta bartered away their freedom for two and a half lacs of rupees? One of the dissenters said that he had to do his duty towards his electors. I have also my duty to perform towards that very constituency, for how can I forget that I am the first Vice-Chancellor chosen from among the representatives of the graduates. If you give me slavery in one hand and money in the other, I despise the offer. We will not take the money. We shall retrench and we

shall live within our means. We shall go from door to door all through Bengal. We shall rouse the public conscience of Bengal, which has been lying dormant for some time past, and make the people of Bengal realise their responsibility for the maintenance, in a state of efficiency, of their chief seat of learning, their potent instrument for the discovery and dissemination of truth in all departments of human activity. Our cause is just and we shall not submit to humiliating conditions. Our Post-graduate teachers would starve themselves, rather than give up their freedom. Do not, my friends, believe for a moment that there is no Providence. If Science or Philosophy has taught you that, get rid of the blunder. If it is the design of Providence that high education should disappear from Bengal, let His will be carried out. But I have an unalterable faith in Providence; that has been my one, sole inspiration in moments of trials and tribulations. Reaction is bound to come. I call upon you, as members of the Senate, to stand up for the rights of your University. Forget the Government of Bengal. Forget the Government of India. Do your duty as Senators of this University, as true sons of your *Alma Mater*. Freedom first, freedom second, freedom always—nothing else will satisfy me.

The motion was put to the vote and carried, *nem. con.*, none voting against it.

19. The Minutes of the Senate, dated the 4th December, 1920, 21st May, 25th June, 6th August, 20th August, 24th September, 30th September, and 10th December, 1921, were confirmed.

(Confirmed.)

ASUTOSH MOOKERJEE, *Vice-Chancellor.* J. C. GHOSH, *Registrar.*

Circulated to the Members of the Senate.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1922.

No. 7.

THE 16TH DECEMBER, 1922.

(*Special*).

Present :

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanchandra Ghosh, Esq., M.A.
Debendranath Mallik Esq., B.A., Sc.D., F.R.S.E.
Professor Praphullachandra Mitter, M.A., Ph.D.

The Faculty met to elect two Representatives of the Faculty on the Syndicate, for the year 1923-24. Of the two Representatives, one at least shall be either Head of, or Professor in a College, affiliated to this University.

The undermentioned gentlemen had been nominated for election :—

Name.	*Proposed by—*
Mr. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.	Professor P. Brühl, D.Sc. I.S.O., F.C.S., F.G.S.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.	Rai Upendranath Brahmachari Bahadur, M.A., M.D., Ph.D.

The Faculty first proceeded to elect a member who must be either the Head of, or a Professor in an affiliated College.

Mr. Subodhchandra Mahalanobis being the only candidate who satisfied the above condition, the Dean declared him duly elected as the first Representative on the Syndicate for the year 1923-24.

The Faculty next proceeded to elect a second Representative on the Syndicate.

Professor P. Brühl, the only other candidate nominated, for election was, therefore, declared duly elected.

(Confirmed).

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

Minutes of the Faculty of Science.

FOR THE YEAR 1922.

No. 8.

THE 16TH DECEMBER, 1922.

Present:

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.,
Dean, in the Chair.

Professor P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Jnanchandra Ghosh, Esq., M.A.

Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.

Professor Praphullachandra Mitter, M.A., Ph.D.

The Faculty met to elect a member of the Faculty of Science to the Committee of Management of the Basanti Bijay School of Mines at Ikrah for the year 1923-24.

On the motion by Professor P. Brühl seconded by Dr. D. N. Mallik, Professor Praphullachandra Mitra, M.A., Ph.D., was elected to the Committee of Management of the Basanti Bijay School of Mines at Ikrah for the year 1923-24.

(Confirmed.)

P. C. Ray,
Dean.

J. C. GHOSH,
Registrar.

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1923

PARTS I & II

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

2. Read a letter from Professor C. V. Raman, requesting that a provision may be made in the Budget Estimates for 1923-24 for a sum of Rs. 2,000 as Research Grant for the work to be carried on by him during that year.

ORDERED—

To be recorded.

3. Read an application recommended by Sir P. C. Ray from Mr. Kalikumar Kumar, Demonstrator in Chemistry, requesting that he may be appointed an Assistant to the Palit Professor of Chemistry on Rs. 200-25-250 with effect from the 1st March, 1923, when his present term will expire.

Note—The applicant was appointed Demonstrator in Chemistry for 2 years with effect from the 1st March, 1921, on Rs. 150 per mensem.

RESOLVED—

That his services be continued for one year on his present salary.

4. Read an application from Kuleshchandra Kar, who passed the M.Sc. Examination in 1922 in Physics (1st in Class I), requesting that a Palit Research Scholarship tenable in Foreign countries may be granted to him and submitting a list of his original papers written by him in support of his case.

RESOLVED—

That the consideration of the application be postponed.

5. Read a letter from Sir Praphullachandra Ray, Kt., C.I.E., Palit Professor of Chemistry, recommending that Pareschandra Banerjee, M.Sc., who was granted a Palit Research Scholarship of Rs. 50 per month up to 31st December, 1922, may be awarded a Palit Research Scholarship of Rs. 100 a month with effect from January, 1923.

It is stated that the candidate is the only research scholar in Inorganic Chemistry.

RESOLVED—

That the applicant be continued for one year on his present stipend.

6. Read an application, strongly recommended by Sir P. C. Ray, from Bibhucharan Chatterjee requesting that the Palit Research Scholarship which was granted to him in February, 1922, may be renewed for another year.

Note—A Palit Research Scholarship of the value of Rs. 100 per month was awarded to the applicant for one year with effect from 1st February, 1922.

RESOLVED—

That the application be granted.

7. Read an application, recommended by the Palit Professor of Chemistry, from Praphullakumar Bose, who passed the M.Sc. Examination in 1922 (in Class I, requesting that a Palit Research Scholarship of Rs. 100 per month may be awarded to him.

ORDERED—

To be recorded."

RESOLVED—

That the Proceedings be confirmed.

8. Read the following proceedings of the Board of Management of the Sir Rashbehary Ghosh Endowment, dated the 24th of February, 1923:—

"The Board met to prepare the Budget Estimates for the year 1923-24.

Resolved—

That the following Draft Budget Estimates be submitted to the Board of Accounts:—

2. Read applications, forwarded for favourable consideration, by Professor Hemendrakumar Sen, from the following candidates, requesting that they be granted Sir Rashbehary Ghose Research Scholarships in Applied Chemistry :—

Name	Qualifications.
Krishnadas Ray	Passed the last M.Sc. Examination in Applied Chemistry (1st in Class I)
Gaurikanta Mukhopadhyay ...	Passed the last M.Sc. Examination in Applied Chemistry (2nd in Class II).

Resolved—

That two research scholarships of Rs. 75 a month be granted for one year with effect from 1st March, 1923.

3. Read an application, forwarded by Sir Prafhullachandra Ray and Professor Praphullachandra Mitter, from Sripendranath Sinha, who passed the last M.Sc. Examination in Chemistry (Class II, 2nd in order of merit) requesting that a Ghose Research Scholarship in Chemistry may be awarded to him.

Resolved—

That the application be granted for one year with effect from 1st February, 1923.

4. Read letters from Professor Hemendrakumar Sen requesting that the following appointments may be sanctioned for the new workshop :—

(1) One mechanic on Rs. 90 per month with effect from the 1st January, 1923.

(2) One Darwan on Rs. 18 per month with effect from the 1st February, 1923.

Professor Sen suggests that the cost may be met this year from the surplus in the workshop grant.

Note— The money will be available from the workshop grant.

Resolved—

That the appointments be sanctioned as proposed."

RESOLVED—

That the Proceedings be confirmed.

9. Read the following proceedings of the Board of Management for the Khaira Fund, dated the 24th of February, 1923 :—

" The Board met to prepare the Budget Estimates for the year 1923-24.

RESOLVED—

That the following Draft Budget be submitted to the Board of Accounts :—

Draft Budget Estimates for 1923-24.

KHAIRA FUND.

Income.		Rs.	Expenditure.	Rs.
Opening Balance	...	4,000	Salary of Prof of Fine Arts ...	6,000
Interest	...	33,070	Do. of Phonetics ...	6,000
			Do. of Physics ...	6,000
Grand Total	Rs.	37,070	Do. of Chemistry ...	6,000
			Do. Agriculture ..	6,000
			Research Grant for Prof. of Physics.	500
			Research Grant for Prof. of Chemistry.	500
			Research Grant for Prof. of Agriculture.	500
			Scholarships 2 (75) ...	1,800
			Bank Commission ..	200
			Total Rs. ..	33,500
			Closing Balance ,, ...	3,570
			Grand Total ,, ...	37,070

(*iv*) Under Experimental Psychology, the amount for Equipment and Working expenses be raised to Rs. 7,000.

(*v*) Under Bio-Chemistry, the amount for Equipment be raised to Rs. 2,500.

(*vi*) Under Workshop, the amount for appliances be raised to Rs. 2,500.

Workshop item 3; the amount be raised to Rs. 5,000.

(*vii*) Under General, the amount provided for Repairs and Alterations be reduced to Rs. 10,000.

The Secretary reported that Sir P. C. Ray, had taken over the charge of the Department of Applied Chemistry with effect from the 18th March, 1923, in the absence of Prof. H. K. Sen, D.Sc., who has gone to Europe, on being awarded a Ghosh Travelling Fellowship.

ORDERED—

To be recorded.

Read endorsements from Sir P. C. Ray, forwarding applications from Syamlal Singh and Bijayratan Mitter, Compounder and Store-keeper respectively, of the Department of Chemistry, praying for increase of their salary.

ORDERED—

To be recorded.

Read a letter from Dr. Meghnad Saha, D.Sc., Khaira Professor of Physics, recommending increment of Rs. 5 per month in the salary of Saratchandra Ghosh, Nakurnath Nath and Srinibash Mandal, Mechanics of his Department, from the next session.

REPORT

ON

Bagerhat College, Bagerhat, Khulna, for 1922-23.

(Inspected on the 6th January, 1923.)

This is a second grade College affiliated in the following standards and subjects :—

I.A.—English, Vernacular Composition, Sanskrit, Persian, Mathematics, History and Logic.

I.Sc.—English, Vernacular Composition, Mathematics, Physics and Chemistry.

The College fee is Rs. 4 per month for "pure" I.A. Students, I.A. students who take up a science subject as well as I.Sc. students have to pay Rs. 5 per month. In some Colleges I.Sc. students who read two science subjects have to pay more than I.A. students who can study only one science subject. This, however, is a matter for the authorities to decide.

I. Governing Body.

The Governing Body of the College for 1922-23 consists of the following gentlemen :—

1. Sir P. C. Ray, Kt., *President.*
2. Mr. Harendranath Dutt, M.A., S.D.O., Bagerhat, *Vice-President* (appointed on 25. 1. 22)
3. Babu Gopalchandra Biswas, B.L., *Secretary.*
4. ,, Hemchandra Raichaudhuri, *Zemindar.*
5. ,, Abanimohan Raichaudhuri,
6. ,, Narendragopal Biswas, B.L. (appointed on 29. 10. 21).
7. ,, Biswanath Nandi, B.L.
8. ,, Mohendranath Biswas, *Hon. Magistrate* and *Zemindar.*
9. ,, Kiranchandra Das, *Zemindar.*
10. ,, Mathurnath Haldar, B.L.
11. ,, Aswinikumar De, Pleader.

32. Read the following Proceedings of the Board of Accounts, dated the 29th March and 11th May, 1923 :—

"Proceedings of the Board of Accounts

THE 29TH MARCH, 1923.

Present :

Mahendranath Ray, Esq., C.I.E., M.A., B.L., *President in the Chair.*
Girischandra Bose, Esq., M.A., M.R.S.
Debendranath Mallik, Esq., B.A., Sc.D., F.R.E.

1. The Board met to prepare the Budget Estimates for the year 1923-24.

RESOLVED—

That the Draft Budget Estimates annexed to these proceedings be submitted to the Syndicate.

2. Considered at the request of the Syndicate the following item :—

The Registrar reported that he had received bills amounting to Rs. 5 343-13-0 from the Department of Chemistry, for payment against an available balance of Rs. 857-5-3 of the Buget grant for the current year, together with a joint note on subject from Sir P. C. Ray, Professor Praphullachandra Mitter and Professor Jnanendranath Mukherjee, and a statement from Professor Praphullachandra Mitter showing when and by whom the goods had been ordered.

Note—An estimate for Rs. 1,762-2-0 for the equipment of a room for Sir P. C. Ray was accepted by the Syndicate on the 13th January, 1922 (vide Item No. 101).

An estimate for Rs. 1,055 for alterations in Professor Mukherjee's Laboratory was accepted by the Syndicate on the 22nd December, 1921 (vide item No. 30).

Also an estimate for articles required for Professor Mukherjee's sitting room was accepted by the Syndicate on the 9th December, 1921 (vide item No. 277)

RESOLVED—

1. That the bills be placed before the Senate with the recommendation that a special grant of Rs. 5,343-13-0 be made to meet them.

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1923

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

PART III & IV

CALCUTTA UNIVERSITY PRESS

Minutes of the Syndicate.

FOR THE YEAR 1923.

No. 31.

THE 6TH JULY, 1923.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., *in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Kedarnath Das, Esq., C.I.E., M.D.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.

1. The Minutes of the Syndicate, dated the 29th June, 1923, were read and confirmed.

2. Read a letter from the Examiner, Outside Audits, Calcutta, stating in reply to the Registrar's letter regarding the loan of the services of a Govt. Senior Accountant, that the Accountant-General is prepared to lend the services of a Senior Accountant provided his pay and pension contributions are paid by the University.

RESOLVED—

That the Examiner, Outside Audits, be requested to state the name of the person who may be deputed to the University and the amount that will have to be paid as pay and pension contribution for the loan of his services.

3. Read endorsements from Prof. Phanindranath Ghosh, forwarding for payment the following bills for supplying books to the department of Applied Physics :—

		Rs.	A.	P.
1.	Messrs. Macmillan & Co.	215	0	0
2.	" " "	5	7	9
3.	" Longmans, Green & Co. ...	17	1	0

Note:—The amounts will be available from the current year's grant.

from the author. 12 copies of the 4th Vol. were purchased in December, 1914. In November, 1916 when the 5th Vol. was published, the Syndicate on the recommendation of the Library General Committee, ordered purchase of one copy only for use of the University Library. The book was not however supplied by the publisher although it was ordered for.

RESOLVED—

That two copies of each of the volumes be purchased.

11. Read a joint report from Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., Prof. P. C. Mitter, M.A., Ph.D., Prof. J. N. Mookherjee, M.A., D.Sc., and Prof. J. C. Ghosh, D.Sc., paper-setters in Chemistry at the recent B.Sc. Examination commenting on the joint letter from Mr. J. Van Neste, S.J., Mr. A. Maitra, and Mr. B. C. Dutt. relating to the setting of the Third Honours Paper in Chemistry.

N.B.—The joint letter from Mr. J. Van Neste, S.J., Mr. A. Maitra, and Mr. B. C. Dutt was referred to the paper-setters by order of the Syndicate (*Vide* Item No. 22 dated the 16th May, 1923.)

ORDERED—

To be recorded.

12. Read a letter from the Principal, Wesleyan College, Bankura, requesting that a centre may be created, on usual conditions, at Bankura for holding the B. c. Examination from 1924, including the Practical Examinations in Chemistry and Physics.

Note—The Principal further states that in view of the present financial position of the University, he will undertake to raise an extra centre fee from the students for meeting extra expenses to be incurred in sending examiners, etc., to Bankura.

RESOLVED—

That Bankura be created a centre for holding the B.Sc. Examination from 1924 (including practical examinations in Chemistry and Physics) on condition that no additional expenditure will be incurred by the University.

13. Read a letter from Prof. Praphullachandra Mitter, M.A., Ph.D., furnishing his report on the question of the proposed extension of affiliation of the Krishnachandra College, Hetampur, in English, Vernacular Composition, Mathematics, Physics and Chemistry to the I.Sc., standard and in Chemistry only to the I.A. standard, with effect from the commencement of the session 1923-24.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR, 1923.

No. 34.

THE 27TH JULY, 1923.

Present:

Bhupendranath Basu, Esq., M.A., B.L.,
Vice-Chancellor, in the Chair.

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Rev. Father, F. X. Cronan, S.J.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E. (Ind.)
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.

1. The Minutes of the Syndicate, dated the 20th July, 1923, were read and confirmed.

2. Read a memo. from the Asst. Secretary, to the Government of Bengal, Local Self Government Department, Medical Branch, forwarding a copy of letter from Government of India, Department of Education, Health and Lands, No. 343, dated the 16th May, 1923, with enclosures, on the subject of the recognition of Indian Medical Degrees by the General Medical Council of Great-Britain.

RESOLVED—

That the matter be referred to the Faculty of Medicine.

3. Read endorsements from Professor Debendramohan Bose, forwarding for payment out of his research grant the following bills :—

		Rs.	A.	P.
1.	N. & N. Ghosh	31	4	0
2.	" " "	52	8	0
3.	Bengal Chamical and Pharmaceutical Works Ltd.	10	8	0
4.	" " ...	8	6	0

Note :—The amount is available from this year's grant.

The University of Calcutta & Acharya P.C.Ray 1906-1944

ORDERED—

That the matter be notified in the Gazette and communicated to the authorities of the College for information.

49. Read an application from the D. P. I., Bengal, requesting that the Bethune College may be affiliated to the I.Sc. standard with effect from the current session, in English, Vernacular Composition, Mathematics, Botany and Chemistry in which subjects the College is already affiliated to the I.A. standard.

RESOLVED—

That the University Inspector of Colleges be requested to inspect the College and favour the Syndicate with a report on its claims to the extension of affiliation applied for.

50. Read an application, forwarded by Sir P. C. Ray, from *Praffullakumar Bose*, who stood first (Class I) in the last M.Sc. Examination in Chemistry and who has been continuing his research work under the guidance of Sir P. C. Ray, praying that he may be granted a research scholarship in Chemistry in the University College of Science.

RESOLVED—

That the application be referred to the Governing Body of the Sir Taraknath Palit Trusts.

51. The Offg. Registrar placed before the Syndicate a bill for Rs. 1,237-12-9 from Mr. M. N. Mukerjee, Engineer, for supervising the construction of the Fish Market Building.

Note—Mr. Mukerjee's remuneration was fixed at 2½ per cent. on the actual cost of construction of the Building (*Vide* Syndicate dated the 8th September, 1922, item No. 5).

Resolved—

That a sum of Rs. 1,000 be paid to Mr. M. N. Mookerjee on account.

52. Read an application from Mukulchandra Bhattacharyya, who passed the B.Sc. Examination in 1917, praying that he may be permitted to appear at the ensuing M.Sc. Examination in Pure Mathematics as a non-collegiate student.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.Sc. Examination in Pure Mathematics as a non-collegiate student.

53. Read an application from Kanailal Mondal, who passed the I.A. Examination in 1920 and who has been employed as a teacher in the Gobindapur H. E. School since August 1921, praying that he may be permitted to appear at the B.A. Examination in 1924 as a non-collegiate student.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1923.

No. 39.

THE 31ST AUGUST, 1923.

Present:

Bhupendranath Basu, Esq., M.A., B.L., *Vice-Chancellor, in the Chair.*

W. W. Hornell, Esq., C.I.E., M.A., M.L.C.
The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Prof. P. Bröhl, D.Sc., I.S.O., F.C.S., F.G.S.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate dated the 16th and the 17th August, 1923, were read and confirmed.

2. The Offg. Registrar reported that he had received copies of the following books for the consideration of the Boards of Studies concerned :—

1. Behula—The Indian "Pilgrim's Progress" by Captain J. W. Petaval and Kiranchandra Sen—1 copy.

2. Higher Sanskrit Grammar and Composition, Part I-II—1 copy.

RESOLVED—

That the books be referred to the Boards of Studies concerned for consideration.

3. Read an endorsement from Prof. Prafullachandra Mitter, forwarding a bill for Rs. 95-11-9 from the Scientific Supplies (Bengal) Co., for payment out of his research grant.

Note.—The amount is available from this year's grant.

ORDERED—

That the bill be paid.

4. Read an endorsement from Prof. Debendramohan Bose, forwarding a bill for Rs. 3-3-0 from Scientific Supplies (Bengal) Co., for payment out of his research grant.

The University of Calcutta & Acharya P.C.Ray 1906-1944

the Kishorilal Jubilee High School under the Board of Intermediate and Secondary Education, Dacca, and who was compelled to seek admission into class X of the Tegharia High English School which is not recognised in the subject, owing to his straitened circumstances, may be permitted to appear at the next Matriculation Examination with Geography as one of his optional subjects.

It is stated by the Head Master that the student has been diligently studying Geography at home.

RESOLVED—

That the permission asked for be granted as a special case.

119. Read a letter from the Head Master, Khulna B. K. Union Institution, forwarding an application from Bibhutibhusan De, whose name was struck off the rolls for non-payment of tuition fees, praying that he may be *re-admitted into* the first class of the aforesaid school, *in excess of the prescribed limit* in consideration of the circumstances that he has long been reading there and that it is inconvenient for him to go elsewhere at the close of the session.

RESOLVED—

That the application be granted on condition that the next vacancy in the Class will not be filled up.

120. Read a letter from the D. P. I., Bengal, forwarding copy of the report on the Naihati Union Institution (provisionally recognised up to 31st December, 1923) in the District of Khulna, submitted by the Inspector of Schools, Presidency Division.

Read also a letter from Sir P. C. Roy, Kt., C.I.E., D.Sc., etc., President of the Naihati Union Institution, stating that

(*i*) since the last inspection of the Additional Inspector of Schools, Jessore and Khulna, a further sum of Rs. 500 has been added to the Reserve fund of the Institution.

(*ii*) the pay of the lowest teacher in charge of the infant class has recently been raised to Rs. 20 per month,

and requesting that *permanent recognition* may be granted to the said institution.

RESOLVED—

That the provisional recognition of the school be extended by two years *i.e.* up to 31st December 1925 with permission to present candidates at the Matriculation Examination in 1925 and 1926 and that a copy of the report be forwarded to the authorities of the school for information and necessary action.

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1923.

No. 42.

THE 21ST SEPTEMBER, 1923.

Present :

Bhupendranath Basu, Esq., M.A., B.L., *Vice-Chancellor in the Chair.*

W. W. Hornell, Esq., C.I.E., M.A., M.L.C.
The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I.
Sir Nilratan Sircar, Kt., M.A., M.D. LL.D., D.C.L.
Heramba Chandra Maitra, Esq., M.A.
Subodh Chandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E., (Ind.)
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate, dated the 14th September, 1923, were read and confirmed.

2. Read the following Proceedings of the Board of Studies in English (Special), dated the 15th September, 1923 :—

"Mr. Sterling stated that Part III of the Selections from the Bible which had been prescribed for the I.A. and I.Sc. Examinations, 1925, were unsuitable for students of that stage.

RESOLVED—

That the list previously published for 1925 be amended by the substitution of Part I for Part III and that the change be notified forthwith in the Gazette and communicated to the Heads of all Colleges."

RESOLVED—

That the proceedings be confirmed and that the list of books prescribed for the I.A. and I.Sc. Examinations 1925 be amended by the substitution of Part I for Part III of the Selections from the Bible and that the change be notified forthwith in the Gazette and communicated to the Heads of all Colleges.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR, 1923.

No. 46.

THE 10TH NOVEMBER, 1923.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., *in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Prof. P. Bruhl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Rev. W. S. Urquhart, M.A., D.Litt.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.

1. The Minutes of the Syndicate dated the 12th October, 1923, were read and confirmed.

2. Read a letter from the Secretary to the Government of Bengal, Education Department, conveying sanction of Government to the appointment of Dr. Sisirkumar Mitra as the Khaira Professor of Physics in the University for a period of five years on a pay of Rs. 500 per mensem, together with a house allowance of Rs. 100 a month.

RESOLVED—

That Dr. Sisirkumar Mitra be informed accordingly.

3. Read the following letter from the Offg. Secretary to the Government of Bengal, Education Department:—

From W. W. Hornell, Esq., O.I.E., Offg. Secretary to the Government of Bengal, Education Department, Education Branch, No. 3179-Edn., dated the 27th October, 1923, to the Registrar, Calcutta University.

I am directed to forward herewith for favour of expression of opinion by the Hon'ble the Vice-Chancellor and the Syndicate a copy of a letter No. 1129, dated the 29th September 1923, from the Government of India, Department of Education, Health and Lands, regarding a scheme for the holding of a Universities Congress at Simla.

In the event of the proposal for holding the Universities Conference at Simla in May next commending itself to the Hon'ble the Vice-Chancellor and the Syndicate I am to request that the topics, which the University desire to be discussed in the proposed conference, may be suggested and that in sending up the names of three delegates at least one should be selected who is in touch with the Local Government's views.

ing that, if there be no objection, the Assam Government may be informed in due course of the action which the Senate propose to take in the matter.

RESOLVED—

1. That the Syndicate recommend to the Senate that the Senate do welcome the proposal to hold a Universities Congress, and that the Government of Bengal be requested to inform the Government of India that in the opinion of the Senate the activities of the University comprise so many educational interests that they could not be adequately represented by less than six delegates.

2. That the Syndicate recommend to the Senate that the following gentlemen be appointed delegates of the University :—

(1) Mr. W. W. Hornell, C.I.E., M.A., *Director of Public Instruction, Bengal.*

(2) The Hon'ble Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., *President of the Councils of Post-Graduate Teaching in Arts and Science. Dean of the Faculties of Arts and Law, formerly Vice-Chancellor of the University.*

(3) Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., *President of the Governing Body of the Carmichael Medical College, formerly Vice-Chancellor of the University.*

(4) Mr. Herambachandra Maitra, M.A., *Principal, City College, Calcutta.*

(5) Sir P. C. Ray, Kt., C.I.E., Ph.D., D.Sc., *Palit Professor of Chemistry, University College of Science, and Dean of the Faculty of Science.*

(6) Rev. Dr. W. S. Urquhart, M.A., D.Litt., *Principal Scottish Churches College, Calcutta.*

4. Read a letter from the Secretary to the Government of Bengal, Education Department, stating in reply to this Office letter No. G. 225, dated the 28th September, 1923, asking for a grant of Rs. 1,45,000 from Provincial Revenues, that the application for the grant is receiving the careful consideration of the Government of Bengal.

It is also stated that the Government would be glad if the reply to their letter No. 2088, dated the 5th September, 1923, in which the University had been requested to comment on their financial position in the light of the remarks of the Accountant General, Bengal, could be expedited.

The Offg. Registrar reported that pursuant to a resolution of the Syndicate, dated the 12th October, 1923, he had sent a

The University of Calcutta & Acharya P.C Ray 1906-1944

reply to Government on the subject of the remarks of the Accountant General, Bengal.

ORDERED—

To be recorded.

5. The Offg. Registrar reported that Mr. C. K. Sarkar, Engineer, had asked for payment on account of a portion of his honorarium for supervising the construction of the Students' Infirmary.

Note.—Rs. 1,266-13-9 is due to Mr. Sarkar and the Government has been requested to make a further grant for the purpose.

RESOLVED—

That the payment be deferred till the amount asked for from Government is received.

6. Read a joint letter from Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., Prof. P. C. Mitter, M.A., Ph.D, and Prof. J. N. Mookerjee, D.Sc., requesting that Rs. 100 (one hundred only) may be paid to the Laboratory and Menial Staff of the College of Science as remuneration for their work in connection with the current M.A. and M.Sc. Practical Examinations in Chemistry, considering that arrangements in the laboratory entails heavy work and that a remuneration of Rs. 50 was sanctioned by the Syndicate in connection with the B.Sc. Practical Examinations in Chemistry.

Read also a letter from Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., forwarding two bills each amounting to Rupees Fifty only, for remuneration to the Laboratory Staff of the Botany Department of the University College of Science for work in connection with the M.A. and M.Sc. Practical Examinations for 1922 and 1923, respectively.

Also a bill, amounting to Rupees One hundred and thirty only, forwarded by Rai Bharatchandra Dhar, Bahadur, M.A., and Mr. K. Mitra, B.A., for remuneration to Mr. Durgadas Mukherjee, M.Sc., Demonstrator, Zoological Laboratory for the assistance rendered by him to Examiners in conducting Practical Examinations in Zoology at the B.Sc. Pass and Honours and M.Sc. Examinations of 1922 and 1923.

RESOLVED—

That the Syndicate regret that having regard to the present financial position of University they are not prepared to sanction new expenditure and must continue to rely upon the co-operation, as before, of all members of the University Staff.

Read an application, forwarded by the Principal, Bangabasi College, from *Debadas Chakraberti*, who has been expelled

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1923.

No. 48.

THE 21ST NOVEMBER, 1923.

Present:

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *in the Chair.*

W. W. Hornell, Esq., C.I.E., M.A., M.L.C.

Haranbachandra Maitra, Esq., M.A.

Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Jnanranjan Banerjee, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

T. H. Richardson, Esq., M.A., B.A.I., M.I.C.E., M.I.E. (Ind.)

The Rev. W. S. Urquhart, M.A., D.Litt.

Pramathanath Banerjee, Esq., M.A B.L.

1. The Minutes of the Syndicate, dated the 10th and the 13th November, 1923, were read and confirmed.

2. Read the following resolution of the Transfer Committee dated the 20th September, 1923 :—

"2. Resolved—That the Committee recommend to the Syndicate that according to Sections 8 and 20 of the Regulations, Chapter XXIII, the boy was liable to pay tuition fees up to the end of the month of October, 1922, when his name was struck off the Rolls, before getting the Transfer Certificate."

Read also a letter from Babu Narendranath Bhaumik, father of Dhirendranath Bhaumik, who was a student of the 1st year I. A. class of the A.M. College, Mymensingh, referring to his previous letter (which was referred to the Transfer Commitee dated the 20th September, 1923), and intimating that on his again applying to the Principal for issuing the transfer certificate, the Principal has remarked that the T. C. cannot be issued at all as the name of the student is not in the Register and as the time for admission has expired. He, therefore, requests that as without a transfer certificate he cannot be admitted into any other College, his case may be considered so that he may take his admission to a College, without any further loss of time.

The University of Calcutta & Acharya P.C Ray 1906-1944

Report of the Thesis of Mr. P. C. Guha for the D.Sc. Degree, University of Calcutta.

Mr. Praphullachandra Guha submits eleven papers in support of his candidature for the Doctorate of Science.

The first four of these are joint papers with Sir P. C. Ray, three dealing with the interaction between mercuric nitrite and various substances of the mercaptan type, and the fourth with the action of chloroform and similar substances on a compound of the same class. The conception of this work is presumably due chiefly to Sir P. C. Ray and therefore, whilst these papers supply evidence of the training and experience of the candidate, his claim for the doctorate must rest chiefly on the following contributions.

The fifth paper was published independently in Sir A. Mookerjee's Silver Jubilee Volume. It describes experiments on the action of chloral and other chloro compounds on various derivatives of thiocarbonic acid. In this investigation several new substances were isolated but in such small quantities as hardly to allow of analysis or of more than tentative speculation as to their constitution.

The sixth paper, published in the Journal of the Amer. Chem. Soc. concerns the constitution of a compound discovered by Freund in 1894 but misinterpreted by him. The true structure of this substance, really a thiodiazole derivative, was established by Busch and Lotz in 1914 (J. pr. Chem. (2) 90, 257). Guha refers in this paper to earlier work by Busch and Schmidt in which the structure of Freund's compound was pointed out but he was apparently unaware of the work of Busch and Lotz. However, he has studied the reactions of the compound in considerably greater detail than did the German investigators and has demonstrated its constitution very capably and satisfactorily. The same subject was subsequently dealt with though less completely by Fromm (Annalen, 1922, 426, 313) who had missed the earlier work of Busch and of Guha.

In the seventh paper, published in the same Journal, a new method of synthesising this compound with the aid of carbon disulphide is described and an account is given of its application to the preparation of a large number of thiodiazole derivatives of the same type.

In the eighth paper, also published in the J. Amer. Chem. Soc., he shows that the ring closure of hydrazodithio-carbonamide with elimination of hydrogen sulphide and formation

of a thiodiazole derivative, which Freund had effected with hydrochloric acid, can be brought about with better yield by the use of acetic anhydride. He shows that this condensation is applicable to nitrogen substitution derivatives of the diamide, but that when one of the two atoms of sulphur in the molecule is replaced by oxygen the reaction takes another course.

The ninth paper contains a description of a new synthesis of dithio ureazole, a compound which was of interest as possessing the constitution which Freund had wrongly assigned to the previously mentioned thiodiazole derivative. It had already been synthesised, as Guha points out, by Arndt and Milde in 192; and by Fromm in 1922. A new synthesis of monothiourazole is also described in this paper.

The tenth paper is by Guha and H. P. Ray. It contains an account of the preparation and examination of further thiodiazole derivatives by the methods described in the seventh paper.

The last paper submitted is by Guha and S. C. Dey. It concerns a new method of synthesising thiocarbohydrazide and some new reactions of this compound. The most interesting of these is that with potassium ethyl anthate which is shown to produce a tetrazine derivative.

The work described in these papers contitutes a definite contribution to the knowledge of some of the less familiar groups of heterocyclic compounds. The experiments are well conceived and carried out. The questions of constitution which arise on the whole are satisfactorily handled. We are of opinion that the work is of sufficient merit to entitle the candidate to the Degree of Doctor of Science in the University of Calcutta.

W. J. POPE.
H. J. H. FENTON.
16 October, 1923. W. H. MILLS.

RESOLVED—

That the report be adopted and that the candidate be admitted to the Degree of Doctor of Science.

8. Read an endorsement from the Principal, Medical College, Calcutta, forwarding an application from Basantakumar Dhar, a candidate for the ensuing Final M.B. Examination (Part I), praying for an extra time for half-an-hour in each of his papers (both Theoretical and practical) at the Examination, as he cannot write efficiently and rapidly owing to an old fracture of the metacarpal bone of his right hand.

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1923.

No. 53.

THE 7TH DECEMBER, 1923.

Present :

The Hon'ble Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *in the Chair.*

W. W. Hornell, Esq., C.I.E., M.A., M.L.C.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Professor P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Manmathanath Ray, Esq., M.A., B.L.
Pramathanath Banerjea, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E. C.B.E., M.D., F.R.C.S.E., I.M.S.

1. The Minutes of the Syndicate, dated the 30th November, 1923 and the Minutes of the Syndicate, (in circulation) dated the 30th November and 4th December, 1923, were read and confirmed.

2. Read a letter from Lt-col. F.A.F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S., Dean of the Faculty of Medicine and President of the Boards of Examiners for M.B. Examinations, forwarding a list of toxicological drugs for the purpose of the ensuing Final M.B. Examination in Practical Medical Jurisprudence and requesting sanction for the supply of the drugs as per list. He further states that the cost of the drugs is about Rs 100 which will be permanently the property of the University, and will be kept for examination purposes.

RESOLVED—

That the amount of Rs. 100 be paid.

present candidates at the Matriculation Examination in 1925 and 1926 and that a copy of the report be forwarded to the authorities of the school, for information and necessary action.

41. The Offg. Registrar laid on the table an estimate for Rs. 20 from Messrs. Wilson & Roy for wiring a light point in the receiving section of the Registrar's Office.

Resolved—

That the estimate be accepted.

42. Read an endorsement from Sir P. C. Ray forwarding a letter from Pareshchandra Banerjee, *Sir Tarakanath Palit Research Scholar*, resigning his scholarship with effect from December, 1923, as he has accepted a post of Assistant Lecturer at the Dacca University.

Note.—The term of the scholar will expire on 31st December, 1923.

ORDERED—

To be recorded.

43. The Offg. Registrar placed before the Syndicate an estimate for Rs. 22-8 from Messrs. Wilson & Roy for wiring new points in the godown of the Publication Department.

Resolved—

That the estimate be accepted.

44. Read an endorsement from Sir. P. C. Ray forwarding for payment a bill from Dr. Bose's Laboratory Ltd. for Rs. 315-4-0 for supplying goods to the Dept. of Applied Chemistry.

Note : The Amount is available from this year's grant.

ORDERED—

That the bill be paid.

45. Read an application from Miss Ushalatika Haldar, who passed the I. A Examination of this University in 1922 with Logic as one of her subjects, praying for permission to appear at the ensuing B. A. Examination as a non-collegiate student with History and Philosophy as optional subjects.

Resolved—.

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next B.A. Examination as a non-collegiate student.

46. Read an application from Babu Jogendranath Banerjee, Assistant, Office of the Controller of Examinations, praying that he may be advanced Rupees fifty only from the salary which will be due to him on the 1st of January, 1924, as he is

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1923

PART V

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

doing certain petty repairs to the lift gates, paid, 104 (30.11), IV, p. 239. A bill for Rs. 97 from Messrs Grindlay & Co. for clearing goods of the Applied Physics Dept., paid, 6 (7.12), IV, p. 302. A bill for Rs. 315-4 for supplying goods to the Dept. of Applied Chemistry from Dr. Bose's Laboratory Ltd., paid, 44 (7.12), IV, p. 273. A bill for Rs. 4-14, for white-washing a small room adjoining the office of the Controller of Examinations, paid, 84 (7.12), IV, p. 285. Messrs. Wilson and Roy's bill for Rs. 156 for repairing 4 fans of the Senate House, paid: another bill for Rs. 17-8 from the same Company for repairing a fan for the Western Hall of the Senate House, paid, 111-12 (14.12), IV, p. 330. Certain bills of the Applied Mathematics Department of the Science College, paid, 113 (14.12), IV, p. 331. A bill for Rs. 80 from Messrs. S. G. Hossain & Co. for supplying a table in the Receiving Section of the Registrar's Office, paid, 151 (14.12), IV, p. 339. A bill for Rs. 223-12 from Messrs. B. L. Ghose & Bros. for effecting a separate connection for carrying filtered water to pumping tanks in the Hardinge Hostel, paid, 167 (14.12), IV, p. 343. Certain bills forwarded by Prof. P. C. Mitter, paid, 2 (21.12), IV, p. 353. A bill from Messrs. Grindlay & Co. forwarded by the Ghosh Prof. of Physics, paid, 5 (21.12), IV, p 354. Bills for Rs. 13-9 from Babu Jyotishchandra Ghosh, Contractor, for petty repairs in the godown of the Publication Department, paid, 83 (21.12). IV, p. 376. Payment of Rs. 30-0 to Messrs. Asanlaut Khan & Sons for doing Press Daftry's work, recorded, 96 (21.12), IV, p. 379. Certain bills forwarded by Sir P. C. Ray for goods supplied to the Applied Chemistry Department, paid, 97 (21.12), IV, pp. 379-80. Certain bills forwarded by Dr. D. M. Bose, Ghosh Professor of Physics, for payment out of his Research Grant, paid, 98 (21.12), IV, p. 380. A bill for Rs. 203-14 forwarded by Prof J. N. Mukherjee, Khaira Prof. of Chemistry, for payment out of his Research Grant, paid, 99 (21.12), IV, p. 380. Bills forwarded by Mr. P. C. Mitter for payment out of his Research Grant, paid, 100 (21.12), IV, p. 380. A bill for Rs 67 from the Glove Engineering Works, endorsed by Mr. M. N. Mukherjee, Engineer, paid, 119 (21 12), IV, p. 308. Requisition from Sir P. C. Ray, of Rs. 144-2 as value for goods required for the Dept. of Applied Chemistry, paid, 120 (21.12). IV, p. 388. A joint requisition from Sir P. C. Ray and Professors P. C. Mitter and J. N. Mukherjee for Rs. 400 only for goods of the Dept. of Chemistry, paid, 121 (21.12), IV, pp. 388-9. Estimates for Rs. 189-8-0 from Rajanikanta Dey for repairing and polishing furniture, accepted, 125 (21.12), IV, p. 389. A bill for Rupees two hundred and ninety-five only from Messrs. Wilson and Ray for wiring and supplying fans, 149, (21.12), IV, p. 395. A bill forwarded by Prof. C. V. Raman, M.A., Ph.D., Palit Prof. of Physics, from Messrs. N. & N. Ghosh for Rupee one and Annas fourteen only, being cost of articles in connection with the last M.Sc. Examination, paid, 152 (21.12), IV, p. 396. A bill forwarded by Prof. P. Brühl, for Rs. 23, from E. Coomer & Co., for wiring light points, paid, 173 (21.12), IV, p. 403. An estimate for Rs. 383-8-0, from Messrs. Nilmoney Haldar & Co. accepted, 196 (21.12), IV, p. 426. Certain bills placed before the P. P. Committee passed for payment, 187 (21.12), IV, p. 406. A bill of Rs. 26-10-0. for typing in duplicate Prof. Winternitz's lectures, paid, 187 (21.12), IV, p. 406. Certains bills sanctioned by the Standing Committees of the several Departments of the Science College, passed for payment, 188 (21.12), IV, pp. 420-22.

Bill Committee :—Constitution of the, for 1924-25, named, 13 (14.12), IV, p. 302.

Boards of Studies :—The different Boards of Studies to which Mr. Adharchandra Mookerjee is attached, 28 (28.1), I, p. 237. Number of members to be elected by the Faculties of Arts and Science for each of the Boards numbering 16-19, fixed, 6 (27.2), p. 370.

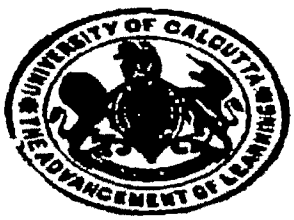
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1924

PARTS I & II



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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1924.

No. 8.

THE 9TH FEBRUARY, 1924.

Present :

Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *in the Chair.*

Herambachandra Maitra, Esq., M.A.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E., O.B.E., M.D., F.R.C.S.E., I.M.S.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.)
Prof. Pramathanath Banerjee, M.A., D.Sc., M.L.C.

1. The Minutes of the Syndicate, dated the 2nd February, 1924, were read and confirmed.

2. Read the Minutes of the Faculty of Arts, dated the 2nd February, 1924 (election of Dean).

ORDERED—
To be recorded.

3. Read the Minutes of the Faculty of Science, dated the 2nd February, 1924 (election of Dean).

ORDERED—
To be recorded.

4. Read the Minutes of the Faculty of Law, dated the 2nd February, 1924 (election of Dean).

ORDERED—
To be recorded.

5. Read the Minutes of the Faculty of Medicine, dated the 2nd February, 1924 (election of Dean).

ORDERED—
To be recorded.

The University of Calcutta & Acharya P.C.Ray 1906-1944

6. Read the Minutes of the Faculty of Engineering, dated the 2nd February, 1924 (election of Dean).

ORDERED—

To be recorded.

7. Read a report from the Controller of Examinations stating that he has paid Rs. 91 to Dr. I. J. S. Taraporewala for printing *confidential papers*.

RESOLVED—

That the action taken be approved.

8. The Registrar reported that the temporary assistants who had recently been appointed, had been paid from the 1st January, 1924.

RESOLVED—

That the action taken be approved.

9. Read a memo. from Professor P. C. Mitter forwarding for payment out of his Research Grant a bill for Rs. 27-9-6 from Dr. Boses Laboratory Ltd. for goods supplied for his Laboratory.

Note.—The amount is available from this year's grant.

ORDERED—

That the bills be paid.

10. Read a memo. from Sir P. C. Ray, forwarding for payment two bills for Rs. 17-9-6 and Rs. 75-8-0 respectively from Dr. Bose's Laboratory for goods supplied to the department of Applied Chemistry.

Note.—The amounts will be available from this year's Budget grant.

ORDERED—

That the bill be paid.

11. Read a memo. from Sir P. C. Ray forwarding for payment a bill for Rs. 9-5-3 from Messrs. N. & N. Ghosh for goods supplied to the workshop of Applied Chemistry.

Note.—The amount will be available from this year's grant.

ORDERED—

That the bill be paid.

12. The Registrar placed before the meeting the following statement re. Budget grant under the head "Travelling Expenses of Inspector and Joint Inspectors" for inspection of

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Syndicate

FOR THE YEAR 1924.

No. 12.

THE 8TH MARCH, 1924.

Present:

Bhupendranath Basu, Esq. M.A., B.L., *Vice-Chancellor, in the Chair.*

E. F. Oaten, Esq., M.A., LL.B.
Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Haraprasad Shastri, Esq., M.A.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Pramathanath Banerjee, Esq., M.A., B.L.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.
Prof. Pramathanath Banerjee, M.A., D.Sc., M.L.C.

1. Read a letter from the Private Secretary to H. E. the Governor of Bengal, addressed to the Vice-Chancellor.

RESOLVED—

That in the Programme for the Convocation the following be added after the words "will then declare the convocation opened"—

"And will call upon the Vice-Chancellor to confer the Degrees."

At this stage the Vice-Chancellor left the meeting and Sir Asutosh Mookerjee, Kt., C.S.I., took the Chair.

2. The Minutes of the Syndicate dated the 1st March, 1924, were read and confirmed.

3. Read the following Proceedings of the Board of Studies in Greek, Latin, French, German and Armenian, dated the 22nd February, 1924:—

"That there be no change in German and French Text books prescribed for the Matriculation Examination, 1925, as it is rather late in the season."

authorities of the school so desire, and that such student will be under the disciplinary control of the school up to the month of March.

58. Read an application from the Secretary, Barangail Gopalchandra H E. School, (unrecognised) in the District of Dacca, praying for the recognition of the School.

ORDERED—

That a copy the application be forwarded to the D. P. I., Bengal, for favour of a report.

59. Read letters from Profs. P. C. Ray and J. N. Mukherjee, forwarding with their strong recommendations, an application from Mr. Kalikumar Kumar, Assistant to the Palit Professor and Demonstrator in Chemistry, whose term of appointment expired on the 29th February, 1924, praying that his appointment may be renewed on Rs. 200 per month with effect from the 1st March, 1924.

NOTE—The applicant's term of appointment was renewed for one year at Rs. 150 per month, which he had been getting previously, with effect from 1st March, 1923.

His salary is paid from the Palit Fund (Second Trust).

RESOLVED—

That the letters be referred to the Governing Body of the Sir T. N. Palit Trust.

60. Read a letter from Messrs. Wilson & Roy, forwarding a report on the working of the Electric Installations of the Darbhanga Library Building, Hardinge Hostel, Senate House and the University Press, during the last year, and requesting that the period of contract which had already expired, may be renewed.

NOTE—The period of contract expired on the 29th February, 1924.

The firm gets a monthly fee of Rs. 180 for the maintenance of the above installations.

RESOLVED—

That the period of contract be renewed for a further period of one year on same terms as in last year.

61. Read an endorsement from Mr. M. N. Mukerjee, Engineer, forwarding for payment a bill for Rs. 1710-15 from Messrs. A. K. Mitter & Co., for removing earth from the Fish Market site to the Science College.

ORDERED—

That the bill be paid.

Minutes of the Syndicate

FOR THE YEAR 1924.

No. 15.

THE 5TH APRIL, 1924.

Present :

Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D., F.R.A.S., F.R.S.E., F.A.S.B., *in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Herambachandra Maitra, Esq., M.A.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Jnanranjan Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. W. S. Urquhart, M.A., D.Litt.
Prof. P. C. Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Pramathanath Banerjee, Esq., M.A., B.L.
A. Macdonald, Esq., M.A., B.Sc.
Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.

1. Read a letter from Prof. P. Brühl, Dean of the Faculty of Science, nominating Prof. P. C. Mitter, M.A., Ph.D., to act as a member of the Syndicate, during his temporary absence from Calcutta.

ORDERED—

To be recorded.

2. The Minutes of the Syndicate, dated the 20th and the 21st (in circulation) March, 1924, were read and confirmed.

The University of Calcutta & Acharya P.C.Ray 1906-1944

163. Read a report from the Controller of Examinations stating that Mr. Atindranath Mookerjee, M.A., who was appointed an Examiner in B.A. History Pass died, and requesting that some other gentleman might be appointed in his place.

RESOLVED—

That Mr. Krishnadhan Banerjee, M.A., be appointed an Examiner in B.A. History Pass in place of Mr. Atindranath Mookerjee, M.A., deceased.

164. Considered the following Inspection Report on the *Bagerhat College, Bagerhat*, Khulna, for the session 1923-24 :—

REPORT
ON
BAGERHAT COLLEGE, BAGERHAT, KHULNA, FOR 1923-24.

(Inspected on the 22nd December, 1923).

This College is affiliated in the following standards and subjects :—

B.A.—English (Pass), Vernacular Composition, Sanskrit (Pass), Persian (Pass), Mathematics (Pass), History (Pass), Philosophy (Pass) and Political Economy and Political Philosophy (Pass).

I.A.—English, Vernacular Composition, Sanskrit, Persian, Mathematics, History, Logic and Chemistry.

I.Sc.—English, Vernacular Composition, Mathematics, Physics and Chemistry.

The College fee is Rs. 4 per month for "pure" I.A. students. I.A. students who take up a Science subject, I.Sc. students and B.A. students pay Rs. 5 per month. The admission and transfer fees are equal in amount to the monthly tuition fees.

I. Governing Body.

The Governing Body of the College for 1923-24 consists of the following gentlemen :—

1. Sir P. C. Ray, Kt., D.Sc., etc., *President.*
2. Babu Harendranath Dutt, M.A., S.D.O., *Vice-President.*
3. „ Gopalchandra Biswas, B.L., *Secretary.*
4. „ Suklal Nag Mazumdar, Zemindar.
5. „ Rajendrakumar Nag Mazumdar, Zemindar.
6. „ Hemchandra Raichaudhuri, Zemindar.
7. „ Prasannakumar Ray, B.A.
8. „ Abanimohan Raichaudhuri.
9. „ Srischandra Mookerjee, B.L.
10. „ Narendragopal Biswas, B.L.
11. „ Mathuranath Haldar.
12. „ Aswinikumar De.
13. Moulvi Syed Sultan Ali.

The University of Calcutta & Acharya P.C.Ray 1906-1944

of foodstaff and also for the fact that he receives salary at a lower rate than is received by the other University peons.

RESOLVED—

That the pay of the peon be fixed at Rs. 12 (plus the usual allowance of Rs. 4) per month with effect from April, 1924.

97. Read a letter from Professor C. V. Raman, requesting that a sum of Rs. 1,500 may be provided for his research work in the next year's Budget now in the course of preparation, and stating that the money will not only enable him to carry out the duties of his chair, but may be utilised in purchasing research equipment at very advantageous prices while visiting America and Europe as a *Sir Rashbehary Ghose Travelling Fellow*.

RESOLVED—

That the Syndicate recommend to the Senate that provision be made in next year's Budget for a sum of Rs. 1,500 for research work of the Palit Professor of Physics.

98. Read a letter from Professor C. V. Raman to whom a *Sir Rashbehary Ghose Travelling Fellowship* for this year has been granted, requesting that as he is required to book his return passage to Canada at once, he may be granted the full allowance of Rs. 5,000 for the Fellowship in one instalment, in advance.

Note.—The money will be available from this year's grant.

RESOLVED—

That the full allowance of Rs. 5,000 be paid to Prof. Raman, in advance.

99. Read a joint letter from Sir P. C. Ray, and Professors P. C. Mitter, H. K. Sen, and J. N. Mukerjee, in reply to this Office letter No. C. 2641-Rec. on the subject of the renewal of appointment of Mr. Kalikumar Kumar, as an Assistant to the Palit Professor of Chemistry, requesting that under the circumstances stated therein the appointment of Mr. Kumar may be renewed for a term of two years and suggesting that the expenses be met from the general funds of the University.

RESOLVED—

That the matter be referred to the Board of Higher Studies in Chemistry.

100. The Registrar laid on the table papers received from the Controller of Examinations, relating to a parcel of answer papers of University Examinations despatched from Rajshahi on the 27th March, 1924.

RESOLVED—

That the matter be reported to the Board of Moderators in Arts and Science and to the Boards of Examiners for the B.A. and B.Sc. Examinations of the current year.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1924

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR, 1924.

No. 4.

THE 1ST MARCH, 1924.

Present:

Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S., *Dean, in the chair.*

Girischandra Bose, Esq., M.A., M.B.A.S	Rev. A. E. Brown, M.A., B.Sc.
Jnanchandra Ghosh, Esq., M.A.	A. Macdonald, Esq., M.A., B.Sc., A.M.I.E.(Ind.)
Prof. Praphullachandra Mitra, M.A., Ph.D	Prof. C. V. Raman, M.A., D.Sc., F.R.S.

The Faculty met to elect Members of the Boards of Studies for the year 1924-25 in (10) Chemistry, (11) Experimental and Mathematical Physics, (12) Zoology, (13) Geology and Mineralogy, (14) Botany, (15) Physiology, and also to elect not more than 2 Members for the Boarr of Stusies in Experimental Psychology, not more than 2 Members for the Board of Studies in Mathematics, not more than 6 Members for the Board of Studies in Geography and not more than 8 Members for the Board of Studies in Teaching.

The undermentioned gentlemen had been nominated for election to the Boards of Studies under which their names appear:—

(10) Board of Studies in Chemistry.

1 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
2 Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
3 Girischandra Bose, Esq., M.A., M.R.A.S.
4 Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
5 Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
6 Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7 Jnanchandra Ghosh, Esq., M.A.
8 Prof. Praphullachandra Mitter, M.A., Ph.D.
9 D. Tiomson, Esq., M.A., Ph.D.

(11) Board of Studies in Mathematical and Experimental Physics.

1 Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
2 Girischandra Bose, Esq., M.A., M.R.A.S.
3 P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
4 Jnanchandra Ghosh, Esq., M.A.
5 Rai Kumudinikanta Banerjee, Bahadur, M.A.
6 Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.
7 Prof. Praphullachandra Mitter, M.A., Ph.D.
8 D. B. Meek, Esq., M.A., D.Sc., F.R.Met.S.
9 Rai Abinaschandra Bose, Bahadur, M.A.
10 A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.)
11 Prof. C. V. Raman, M.A., D.Sc., F.R.S.

(12) Board of Studies in Zoology.

1 Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
2 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3 Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
4 Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
5 C. A. Bentley, Esq., M.B., D.P.H., D.T.M.H.

(13) Board of Studies in Geology and Mineralogy.

1 Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
2 Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
3 Debendranath Mallik, Esq., B.A., Sc.D., F.R.S.E.

(15) Board of Studies in Botany.

1 Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
2 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3 Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
4 Girischandra Bose, Esq., M.A., M.R.A.S.
5 Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
6 Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

(15) Board of Studies in Physiology.

1 Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
2 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3 Kedarnath Das, Esq., C.I.E., M.D.

Minutes of the Senate

FOR THE YEAR 1924.

No. 8.

THE 14TH JUNE, 1924.

(*Special.*)

Present :

His Excellency the Right Hon'ble Victor Alexander George Robert Bulwer-Lytton, Earl of Lytton, M.A., P.C., G.C.I.E., *Chancellor in the Chair.*

The Hon'ble Sir Lancelot Sanderson, Kt., K.C., M.A., LL.B.

E. F. Oaten, Esq., M.A., LL.B., M.L.C.

Mahamahopadhyay Hariprasad Sastri, M.A.

Mahendranath Ray, Esq., C.I.E., M.A., B.L.

Sir Kailaschandra Bose, Kt., C.I.E., O.B.E., L.M.S.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Prof. H. Stephen, M.A., D.D., Ph.D.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Girischandra Bose, Esq., M.A., M.R.A.S.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Jnanchandra Ghosh, Esq., M.A.

Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., M.I.E., (Ind.).

Rai Dinesschandra Sen, Bahadur, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Jnanranjan Banerjee, Esq., M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Jaminibhushan Ray, Esq., *Kaviratna*, M.A., M.B.

Rev. Father F. X. Crohan, S.J.

S. Khuda Bukah, Esq., M.A., B.C.L.

Bidhanchandra Ray, Esq., B.A., M.D., *M.R.C.P., F.R.C.S., M.L.C.

W. C. Wordsworth, Esq., M.A.

Rev. W. S. Urquhart, M.A., D.Litt.

The Hon'ble Mr. Justice H. S. Suhrawardy, M.A., B.L.

Professor Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.C.

Prof. D. R. Bhandarkar, M.A., Ph.D.

D. S. Meek, Esq., M.A., D.Sc., F.R.Met.S., O.B.E.

The Hon'ble Justice Sir W. R. Greaves, Kt., M.A.,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Mahendranath Banerjee, Esq., C.I.E., B.A., M.B.C.S.
Rai Ahle-schandra Bose, Bahadur, M.A.
J. M. Battomley, Esq., B.A.
Pramathanath Banerjee, Esq., M.A., B.L.
G. A. Bentley, Esq., M.B., D.P.H., D.T.M.H.
Agha Muhammad Kazim Shirazi.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.
Prof. Abanindranath Tagore, C.I.E., D.Litt.
J. C. Coyajee, Esq., B.A., LL.B.
Shams-ul-Ulama Maulavi Hidayat Husain, Khan Bahadur.
Jatindranath Maitra, Esq., M.B.
Pramathanath Nandi, Esq., M.D.
Prabhatnath Banerjee, Esq., M.A., A.M.I.E. (Ind.).
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.
S. R. Das, Esq.
John Van Manen, Esq.
Surendranath Mallik, Esq., M.A., B.L.
Jyotishchandra Mitra, Esq., M.A.
Syamaprasad Mookerjee, Esq., M.A., B.L.

The Senate met to express sorrow at the sudden demise of Sir Asutosh Mookerjee, Kt., C.S.I.

The Registrar placed before the meeting telegrams and letters of condolence received from the following Fellows of the University :—

Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. F. W. Sülmersen, B.A.
Mr. Aparichandra Datta, B.A.
Dr. A. Suhrawardy, M.A., D.Litt., Ph.D., M.L.C.
Khan Bahadur Maulvi Ahsanulla, M.A., M.R.A.S.
Major Hasan Suhrawardy, M.D., F.R.C.S.E., L.M., M.L.C.
Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.
Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.

Telegrams and letters of condolence received from the following gentlemen were also placed before the meeting :—

Dr. R. P. Paranjpye, M.A., Ph.D.
Prof. S. Radhakrishnan, M.A.
Vice-Chancellor, Nagpur University.
President, Rangoon Corporation (on behalf of the citizens of Rangoon).
Editor, Rangoon Mail, and others.

His Excellency the Chancellor said :—

Gentlemen,

This is the first opportunity I have had as Chancellor of meeting in full session the members of the Senate. I wish it

The resolution was put to the meeting and passed unanimously, all the members present standing.

Sir Prpahullachandra Roy then moved—

That a suitable memorial be established for the perpetuation of Sir Asutosh's memory in connection with his great work in the University and a Committee be formed consisting of the following gentlemen with power to add to their number and with liberty to co-operate with various other committees that are to be formed all over the country to combine in instituting a suitable memorial worthy of the name and work of Sir Asutosh Mookerjee—

Members of the Committee.

1. The Hon'ble the Vice-Chancellor.
2. The Hon'ble the Chief Justice.
3. Mr. E. F. Oaten, M.A., LL.B., M.L.C.
4. Mr. Mahendranath Ray, C.I.E., M.A., B.L.
5. Sir Kailaschandra Bose, Kt., C.I.E., O.B.E., L.M.S.
6. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
7. Mr. Heramhachandra Maitra, M.A.
8. The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
9. Mr. Girischandra Bose, M.A., M.R.A.S.
10. Mr. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
11. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
12. Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O.
13. Mr. Jnanranjan Banerjea, M.A., B.L.
14. Rev. Father F. X. Croban, S. J.
15. Mr. S. Khuda Bukhsh, M.A., B.C.L.
16. Dr. Bidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S., M.L.C.
17. Rev. W. S. Urquhart, M.A., D.Litt.
18. The Hon'ble Mr. Justice Z. R. Zahid Suhrawardy, M.A., B.L.
19. Professor Praphullachandra Mitter, M.A., Ph.D.
20. Mr. Manmathanath Ray, M.A., B.L., M.L.C.
21. The Hon'ble Justice Sir W. E. Greaves, Kt, M.A.
22. Dr. Abdulla-al-Mamun Suhrawardy, M.A., D.Litt., Ph.D., M.L.C.
23. Mr. Pramathanath Banerji, M.A., B.L.
24. Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S.
25. Rev. A. E. Brown, M.A., B.Sc.

The University of Calcutta & Acharya P C.Ray 1906-1944

26. Shams-ul-Ulama Maulvi Hidayet Husain, Khan Bahadur.
27. Mr. A. Macdonald, M.A., B.Sc.
28. Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.
29. Mr. S. R. Das
30. Sir Bijaychand Mahtab, G.C.I.E., K.C.S.I., I.O.M., Maharajadhiraja Bahadur of Burdwan.

Treasurer	...	... Sir Rajendranath Mookerjee, K.C.I.E, K.C.V.O.
Secretary	...	... Mr. Jnanchandra Ghosh, M.A., Registrar, *Ex-officio.*
Assistant Secretary		... Mr. Jogeschandra Chakravorti, M.A., Assistant Registrar.

He said :—

YOUR EXCELLENCY AND GENTLEMEN,

After the eloquent speeches of His Excellency the Chancellor, the Hon. the Vice-Chancellor, the Hon. the Chief Justice and others, it is scarcely necessary for me to repeat the glowing tributes of eulogy paid to the memory of Sir Asutosh Mookerjee. I may, however, be permitted to recall the words of your Excellency's predecessor, Lord Ronaldshay, on a memorable occasion. He said "The services of Sir Asutosh Mookerjee are simply unrequitable and unforgettable." The reputation of the Calcutta University that has spread throughout Europe and other foreign parts for its research work in connection with the Post-Graduate Department on the literary and scientific lines is mainly due to Sir Asutosh Mookerjee. As an old boy of the Hare School I may say that the lines inscribed on the tablet in memory of David Hare

"If for a day that aim was crossed
He grieved like Titus that a day was lost"

are quite applicable to Sir Asutosh Mookerjee, for Sir Asutosh was all work, and if a day passed without some substantial work being done for his beloved *Alma Mater* he thought that the day was wasted. With these few words I beg to move the resolution which is entrusted to me.

The Rev. Dr. W. S. Urquhart, in seconding the resolution, said :—

It is a deeply felt honour to be asked to second this resolution that a Committee be formed to make arrangements for a memorial to the late Sir Asutosh Mookerjee. Such a memorial seems at first sight hardly necessary, his labours have left in the

Minutes of the Syndicate

FOR THE YEAR 1924.

No. 53.

THE 12TH DECEMBER, 1924.

Present :

The Hon'ble Justice Sir W. E. Greaves, Kt., M.A., Bar-at-Law, *Vice-Chancellor, in the Chair.*

E. F. Oaten, Esq., M.A., LL.B.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
H orambachandra Maitra, Esq., M.A.
Prof. P. Brühl, D Sc., I.S.O., F.C.S., F.G.S.
Jnanranjan Banerjee, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S
Ramaprasad Mookerjee, Esq., M.A., B.L.
Prof. Pramathanath Banerjee, M.A., D.Sc., M.L.C.
Syamaprasad Mookerjee, Esq., M.A., B.L.

1. Before Proceeding to the business of the meeting, the Hon'ble the Vice-Chancellor spoke in feeling terms of the sad demise of Mr. Girischandra Mookerjee, M.A., and the Syndicate adopted the following resolutions in solemn silence all the members present standing :—

(1) That the Syndicate desires to place on record its sense of deep regret at the death of Mr. Girischandra Mookerjee, who faithfully served the University for 25 years from 1889 to 1914, occupied with distinction the Office of Assistant Registrar from 1901 to 1914, officiated as Registrar in 1905 and 1908, and was a member of the Senate for five years from 1915-1920.

(2) That a copy of the above resolution be forwarded to the bereaved family.

2. The Minutes of the Syndicate dated the 5th December, 924, were read and confirmed.

3. Read the Proceedings of the Council of Post-Graduate Teaching in Arts, dated the 27th November, 1924.

Aga Muhammad Kazim Shirazi.
E. F. Oaten, Esq., M.A., LL.B.
Mahamahopadhyay Asutosh Sastri, M.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Egerton Smith, Esq., M.A.
Prof. Abanindranath Tagore, C.I.E., D.Litt.
J. C. Coyajee, Esq., B.A., LL.B.
Shams-ul-Ulama Maulavi Hidayet Husain, Khan Bahadur.
Miss G. M. Wright.
The Hon'ble Mr. Khagendranath Mitra, M.A.
Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.
John Van Manen, Esq.
N. G. Leather, Esq., M.A.
R. B. Ramsbotham, Esq., M.B.E., M.A.
The Hon'ble Khan Bahadur Aminul Islam, B.L.
Syamaprasad Mookerjee, Esq., M.A.
Adityanath Mookerjee, Esq., M.A., Ph.D.

FACULTY OF SCIENCE

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Girischandra Bose, Esq., M.A., M.R.A.S.
H. E. Stapleton, Esq., M.A., B.Sc.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Jnanchandra Ghosh, Esq., M.A.
Rai Kumudinikanta Banerjee, Bahadur, M.A.
Rev. J. Watt, M.A., D.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. B. Meek, Esq., M.A., D.Sc., F.R.Met.S., O.B.E.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rai Abinaschandra Bose, Bahadur, M.A.
Rev. A. E. Brown, M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.)
Prof. C. V. Raman, M.A., D.Sc., F.R.S.

FACULTY OF LAW

The Hon'ble Justice Sir William Ewart Greaves, Kt., M.A.
Mahendranath Ray, Esq., C.I.E., M.A., B.L.
The Hon'ble Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.A., LL.D.
Satischandra Bagchi, Esq., B.A., LL.B., LL.D.
Birajmohan Majumdar, Esq., M.A. B.L.
S. Khuda Bukhsh, Esq., M.A., B.C.L.

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1925

PARTS I & II

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

14. Debi Pd. Banerjee.
15. Subodhkumar Mukherjee.
16. Narendranath Basu
17. Saradindukumar Ghosh.
18. Bimalendunath Mukherjee.
19. Debendranath Addy.
20. Nripendraprasanna Dasgupta.
21. Durgapada Mukherjee.
22. Chandranath Nandy.
23. Pulinchandra Datta.
24. Dinanath Sengupta.
25. Jogeschandra Debbarman.
26. Narendranath Kusary.
27. C. Narasingha Reddi.
28. Baidyanath Mandal.
29. Santosh Pd. Ray.
30. Lakshminarayan Ray.
31. Bibhutibhusan Banerjee.
32. Niharkumar Banerjee.
33. Sureshchandra Das.
34. Manindrachandra Dasgupta.
35. Nirmalchandra Guhathakurta.
36. Kalindy Subharaja.
37. Nadimpalli Sawaja.
38. Bimalendu Chakravorty.
39. Niradgopal Banerjee.
40. Abhedchandra Sarkar.

RESOLVED—

That the Syndicate recommend to the Senate that the applicants be permitted to appear at the next B. Com. Examination as non-collegiate students.

102. Read an application, recommended by the Principal, Vidyasagar College, from *Sukumar Ghosh*, who has lately been a student in the First-year B.Sc. Class of the Dacca University and whose prayer for permission to join the 3rd-year B.Sc. Class of the Vidyasagar College had been refused (*vide* Syndicate Item 62, dated the 30th January, 1925), praying that under the special circumstances detailed therein his case may be favourably reconsidered.

RESOLVED—

That in view of the very special circumstances of the case, the applicant be permitted to join the 3rd-year class of the Vidyasagar College.

103. Read a letter from the Assistant Secretary to the

Government of Bengal, Education Department, forwarding a copy of Notification No. 393-Edn., dated the 9th February, 1925, showing the following composition of the Governing Body of the Bethune College, Calcutta, for the academic year 1925-26 :

1. D. P. I., Bengal—President. } *Ex-officio.*
2. Principal, Bethune College—Secretary. }
3. The Hon'ble Sir Devaprasad Sarbadhikary, Kt., C.I.E.
4. Lady Bose.
5. Miss Greaves.
6. Sir P. C. Ray, Kt., C.I.E., D.Sc.
7. Rai Chunilal Bose, Bahadur, C.I.E., I.S.O.
8. Mrs. P. K. Roy.
9. Mr. S. C. Mahalanobis, F.R.S.E., Professor, Presidency College.
10. Mrs. K. N. Ray.
11. Mr. S. N. Mullick.
12. Babu Narendranath Chakervarty, representative of the College staff.

ORDERED—

To be recorded.

104. Read a memo. from the Assistant Secretary to the Government of Bengal, Education Department, forwarding copy of a notification announcing that his His Exellency the Chancellor is placed to nominate Mr. R Wolfenden, M.B.E., M.Sc. (Engineering), M.I. Mech.E., M.I.E. (Ind.), Bar-at-Law., to be an Ordinary Fellow of this University *vice* Mr. G. G. Dey resigned.

RESOLVED—

That the Fellow be attached to the faculty of Engineering.

105. Read a letter from the Director General of Archæology in India, enquiring whether the Calcutta University proposes to resume the work of excavation at Paharpur and intimating that in case the University do not desire to continue the aforesaid work, the site will be taken over by the Archæological Department for permanent preservation in order to protect it from damage.

RESOLVED—

(1) That the matter be referred to Prof. D. R. Bhandarkar, M.A., Ph.D.

(2) That an enquiry be made of Kumar Saratkumar Ray as to whether he will continue the donation for excavation work at Paharpur.

106. Read a letter from the Director General of Archæo-

The University of Calcutta & Acharya P.C.Ray 1906-1944

all the financial assistance it is now receiving from them if the very objectionable word 'Mehereshwari' be attached to the name of the amalgamated school.

RESOLVED—

(1) That the Syndicate adhere to its previous resolution regarding the election of the President and the Secretary.

(2) That 'Mehereshwari-Satindra Sukul H. E. School' be the name of the amalgamated school accepted by the Syndicate.

59. The Registrar reported that Rani Bageswari Devi had paid the interest due from her up to the 15th December, 1924 and enquired whether the Solicitors might be asked to stay proceedings against her.

ORDERED—

That the proceedings be stayed.

60. Read a letter from Sir P. C. Ray, Palit Professor of Chemistry, requesting that a sum of Rs. 625 may be advanced on his personal responsibility to Mr. Jnanendranath Ray who has been awarded a Palit Scholarship of Rs. 2,500 pending execution of the usual bond by Mr. Ray.

It is stated that the draft bond which was sent to Sir P. C. Ray is being forwarded by him to Mr. Jnanendranath Ray for execution.

ORDERED—

That a sum of Rs. 625 be advanced to Mr. Jnanendranath Ray.

61. Read a letter from Professor S. Radhakrishnan on the subject of holding the First All-India Philosophical Congress.

RESOLVED—

(1) That the Board of Accounts be asked to provide in the Budget Rs. 500, every year for expenses of any Educational Congress that may be held in Calcutta.

(2) That an enquiry be made of Prof. Radhakrishnan as to an approximate idea of the amount of printing work that will be required to be done in connection with the congress and that the reply when received be placed before the Press and Publication Committee.

62. The Registrar placed before the Syndicate the bill for Rs. 45 from the Principal of the Bethune College for remuneration of two lady invigilators at the Matriculation Examination, 1925, held at the Bethune College Centre.

ORDERED—

That the bill be paid.

116. Read the following Proceedings of the Governing Body of the University College of Science, dated the 5th March, 1925.

Proceedings of the Governing Body of the University College of Science.

No. 2

FOR THE YEAR 1924-25.

THE 5TH MARCH, 1925.

Present:

The Hon'ble Sir W. E. Greaves, Kt., M.A., *President, in the Chair.*

Sir Nilratan Sircar, Kt., M.A., M.D.
Mr. G. C. Bose, M.A., M.R.A.S.
" S. C. Mahalanobis, B.Sc., F.R.S.E.
" Jnanchandra Ghosh, M.A.
Prof. Nikhilranjan Sen, D.Sc.
" D. M. Bose, M.A., B.Sc., Ph.D.
" Sisirkumar Mitra, D.Sc
" Phanindranath Ghosh, M.A., Ph.D., Sc.D., F. Inst., P.
" P. C. Mitter, M.A., Ph.D.
" Jnanendranath Mookerjee, D.Sc.
" H. K. Sen, D.Sc.
" P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Prof. S. P. Agharkar, M.A., Ph.D.
Mr. Ramaprasad Mookerjee, M.A., B.L.
" Syamaprasad Mookerjee, M.A., B.L.
Dr. Bibhutibhushan Datta, D.Sc.,
" Nripendranath Sen, D.Sc.
Mr. Susilkumar Acharyya, M.Sc.
" Jogeschandra Mookerjee, M.A.
" Priyadaranjan Ray, M.A.
" Manmathanath Banerjee, M.Sc.
" Haripada Maiti, M.A.
Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.

1. The Governing Body proceeded to consider the Draft Budget Estimates for the year 1925-26.

RESOLVED—

That a Sub-committee consisting of the following gentlemen be appointed to consider the non-recurring grants for each of the Departments of the University College of Science, and

to report to the Governing Body within a week from this date :—

1. Sir Nilratan Sircar.
2. Mr. G. C. Base.
3. ,, S. C. Mahalanobis.
4. Dr. N. R. Sen ... Ghosh Professor of Applied Mathematics.
5. ,, D. M. Bose ... Ghosh Professor of Physics.
6. ,, S. K. Mitra ... Khaira Professor of Physics.
7. ,, P. N. Ghosh ... Ghosh Professor of Applied Physics.
8. Sir P. C. Ray ... Palit Professor of Chemistry.
9. Dr. P. C. Mitter ... Ghosh Professor of Chemistry.
10. ,, J. N. Mookerjee Khaira Professor of Chemistry.
11. ,, H. K. Sen ... Ghosh Professor of Applied Chemistry.
12. ,, P. Brühl ... University Professor of Botany.
13. ,, S. P. Agharkar ... Ghosh Professor of Botany.
14. ,, Bibhutibhushan Datta.
15. Mr. Susilkumar Acharyya.
16. ,, P. R. Ray.
17. Dr. Ekendranath Ghosh.
18. ,, N. N. Sengupta.

RESOLVED FURTHER—

That Professor S. K. Mitra be the Secretary to the Sub-committee.

RESOLVED ALSO—

That the following draft Budget Estimates relating to the recurring grants for the several Departments of the University College of Science for the year 1925-26 be submitted to the Board of Accounts :—

APPLIED MATHEMATICS.

		Rs.
1.	Student-Assistants, 2(20), Menials 2(15) ...	840
2.	Furniture : 1 Wooden partition (75), 4 Screens (60)	135
3.	Working Expenses	100

PHYSICS.

1.	Laboratory Staff 1 (60), 1 (25), 1 (17), 2 (16), 4 (15), 1 (14) ...	2,500
2.	Equipment and Working Expenses ...	11,000
3.	Research Grant for the Palit Professor ...	1,500
4.	Research Grant for the Ghosh Professor ...	1,500

The University of Calcutta & Acharya P.C.Ray 1906-1944

prospect of teachers of High Schools in Bengal, (2) for holding an annual conference of teachers at different centres, (3) for conducting a teachers' Journal dealing with educational matters concerning teachers and (4) for creating a fund for relieving distressed teachers and making provision for their widows and orphans after their deaths. It is further stated that the inaugural Conference was held at Gaibandha under the presidency of Sir P. C. Ray, its second session at Calcutta under the presidency of Rai Jogendrachandra Ghosh, Bahadur, M.A., B.L., the third session at Dacca under the presidency of Mr. G. C. Bose, M.A., Principal, Bangabasi College, the fourth session at Madaripur under presidency of Mr. J. Chaudhuri and the 5th session at Katwa under the presidency of Sir P. C. Mitter, *ex-Minister*.

The Association has been registered under the Act of XXI of 1860.

ORDERED—

That the Secretary, All-Bengal Non-Government Teachers' Association, be asked to furnish the Syndicate with detailed particulars regarding the number of members and the constitution of the Association.

27. Read a letter from the Secretary, Ashujia J. N. C. Institution forwarding, in reference to this office letter No. Pro. S. 3211-217, dated a copy of the resolutions of a meeting of the Managing Committee of the School, for information of the Syndicate.

The resolutions are :—

"1. Considered the circular of the University regarding the safe preservation of the fund of the Institution and resolved that the suggestions made therein be fully accepted and that the Secretary be requested to deposit in the Savings Bank if any amount exceeding rupees one hundred is with him."

"2. In view of the recommendations made in the letter from the Registrar of the University and addressed to the Secretary in connection with the continuance of the recognition of the school, be it resolved that the salaries of teachers be raised to the minimum standard prescribed by the University."

ORDERED—

To be recorded.

28. Read a letter from the Secretary, Barala Ram Dass Sen H. E. School requesting that the recognition fee of Rs. 100 paid by the school may be refunded to him.

REPORT

ON

The City College, Calcutta, for 1924-25.

(*Inspected on the 22nd September, 1924.*)

Since the last inspection this institution has obtained extension of affiliation up to B.A. History Honours in addition to the subjects and standards mentioned in the last report.

The monthly tuition fees for the different classes remain unchanged.

We note that I.A. French and Physics and B.A. Physics and Chemistry (Pass) have not been taught since June 1915. Under section 2, Chap. XXVI. of the Regulations and section 24 of the Indian Universities' Act, affiliation in these subjects ought to have been withdrawn 6 years ago.

I. Governing Body.

The Governing Body for the current session is composed of the following gentlemen :—

Krishnakumar Mitra, Esq., B.A.
Prankrishna Acharyya, Esq., M.A., M.B.
Paresnath Sen, Esq., B.A.
S. R. Das, Esq., Bar-at-Law.
S. K. Ray, Esq., D.Sc.
S. C. Mahalanobis, Esq., B.Sc., (Edin.) F.R.S.E.
Hiralal Haldar, Esq., M.A., Ph.D.
Sasibhusan Datta, Esq., M.A.
Sir P. C. Ray, C.I.E., Ph.D., D.Sc., &c.
Nibaranchandra Ray, Esq., M.A., B.L.
D. M. Bose, Esq., M.A., B.Sc., Ph.D.
Jatindranath Basu, Esq., M.A.
Kaliprasanna Chattoraj, Esq., M.A.
Sreegopal Chakravarti, Esq., M.A.
Rajanikanta Guha, Esq., M.A.
Annadacharan Sen, Esq., B.A.
Herambachandra Maitra, Esq., M.A.—*Secretary.*
S. M. Bose, Esq., M.A., LL.B.—*Joint Secretary.*

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1925

PART III

CALCUTTA UNIVERSITY PRESS

Applied Chemistry Workshop on Rs. 60 a month, from 19th July, 1925.

RESOLVED—

That the appointment made be sanctioned.

17. Read a letter from Prof. H. K. Sen, asking for the immediate appointment of a Boilerman to run the steam boiler and engine in the department of Applied Chemistry.

(*Note.*—There is no provision in the Budget for the appointment.)

RESOLVED—

That the appointment of a Boilerman on a salary of Rs. 35 a month be sanctioned, and the Board of Accounts be requested to make provision for the appointment, stating whence the money for the payment can be found.

RESOLVED FURTHER—

That the principle of joint control do apply to the workshop for Applied Chemistry and Applied Physics.

RESOLVED ALSO—

That a Sub-Committee consisting of Sir P. C. Ray, Prof. D. M. Bose, Prof. P. N. Ghosh, Prof. H. K. Sen and Prof. P. Brühl (convener) be appointed to work out details regarding the management of the workshop.

18. Read a letter from Mr. Durgadas Mookerjee, Lecturer in charge of the Department of Zoology, requesting the Governing Body that in pursuance of the provision made in the Budget for 1925-26, Mr. Haraprasad Ray, Stenographer of the Department may be allowed to draw Rs. 75 a month with effect from 1st June, 1925.

RESOLVED—

That Mr. Haraprasad Ray do continue to work on his present salary of Rs. 60 a month.

19. Read a letter from the Registrar with the request to place the same before the Governing Body for their consideration, regarding the desirability of removal of the Zoology Department from Ballygunge to the Science College Buildings at 92, Upper Circular Road.

RESOLVED—

That the consideration of the matter be postponed.

20. Read a letter from Prof. P. N. Ghosh, reporting that Manmathanath Das has been appointed a Machanic, provisionally for six months, with effect from 1st April, 1925, on Rs. 45 a

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1926

PART I

CALCUTTA UNIVERSITY PRESS

PHYSICS.

(Pass and Honours.)

Mr. Jnanchandra Ghosh, M.A.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Dr. Sisirkumar Mitra, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.
D. N. Mallick, B.A., Sc.D., F.R.S.E.
Prof. Phanindranath Ghosh, M.A., Ph.D., D.Sc.

CHEMISTRY.

(Pass and Honours.)

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Dr. Jatindranath Sen, M.A., Ph.D.
,, Jnanendranath Mookerjee, D.Sc.
,, Jnanendrachandra Ghosh, D.Sc.
Mr. Priyadaranjan Ray, M.Sc.

BOTANY.

(Pass and Honours.)

Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Prof. S. P. Agharkar, M.A., Ph.D.
Dr. Sahayram Bose, D.Sc.
,, Krishnadas Bagchi, M.A., D.Sc.
,, Birbal Sahany, D.Sc.

GEOLOGY AND MINERALOGY.

(Pass and Honours.)

Dr. L. Fermor, D.Sc.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. Cyril Fox, D.Sc.

PHYSIOLOGY.

(Pass and Honours.)

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Lt.-Col. A. C. MacGilchrist, M.A., M.D., D.Sc., I.M.S.
Rai Bahadur Dr. U. N. Brahmachari, M.A., M.D., Ph.D
Dr. Bijaibihari Sarkar, D.Sc.

Note.—The applicant gets an allowance of Rs. 14 per month; the monthly allowance of the applicant is paid from "Office contingencies."

RESOLVED—

That the allowance of Kristodhan Mallik be increased to Rs. 15 per month.

65. Read a letter from Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., stating that he has been invited to attend the next meeting of the Australasian Association for the Advancement of Science to be held in Perth during the week commencing August 23rd, 1926, and enquiring whether in view of the fact, that he is not in a position at present to meet all the expenses that may be incurred in this connection and that he considers it desirable that the University College of Science should be represented at the meeting, the University would grant him travelling expenses amounting to not more than Rs. 2,000 to enable him to attend the meeting.

ORDERED—

That Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., be informed that the sum of Rs. 2,000 will be paid to him.

RESOLVED—

That the Syndicate recommend to the Senate that a sum of Rs. 2,000 be paid to Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., to enable him to meet his expenses for attending the next meeting of the Australasian Association for the Advancement of Science to be held in Perth during the week commencing on the 23rd August, 1926, to which he has been invited.

66. Read an application, forwarded by the Head Master, Anjuman-i-Islam High School, Bombay, from P. R Rao, a teacher in the aforesaid school, who passed the B.A. Examination of the Mysore University in 1923 with French as Second Language and Physics and Mathematics as Optional subjects, praying for permission to appear at the next M.A. Examination in English, Group A, as a non-collegiate student.

The requisite permit was submitted.

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the next M.A. Examination in English, Group A, as a non-collegiate student.

The University of Calcutta & Acharya P.C.Ray 1906-1944

RESOLVED—

That the Syndicate recommend to the Senate that, in extension of the affiliation already granted, the Midnapur College be affiliated in Physics to the B.Sc. Honours Standard with effect from the commencement of the session 1926-27.

73. Read the report of the Age Committee, dated the 6th February, 1926.

RESOLVED—

That the Report be adopted.

74. Read the following Proceedings of the Governing Body of the University College of Science, dated the 27th January, 1926 :—

1. "Read a letter from Prof. S. P. Agharkar, M.A., Ph.D., F.L.S., Ghosh Professor of Botany, stating that he will move that no items involving expenditure of money be allowed to be placed before the Governing Body as supplementary items unless at least three days' clear notice be given to all members of the Governing Body.

RESOLVED—

That ordinarily, items of business involving expenditure of money be not taken up for consideration unless three clear days' notice be given to all members.

2. Read a letter from Prof. S. P. Agharkar, requesting that a clerk with the knowledge of typewriting may be provided for in view of the increase in office-work in the Department of of Botany.

RESOLVED—

That the consideration of the matter be postponed.

3. Read a letter from Prof. S. P. Agharkar, asking whether

(1) Laboratory Assistants are entitled to academic vacations ; if not, what the holidays are to which they are entitled ;

(2) if there are rules for the issuing of books to Post-Graduate Students from the University Library.

RESOLVED—

That the consideration of the first question be postponed.

RESOLVED FURTHER—

That the Rules of the University Library (pp. 352-353 of the University Calendar, 1926, Part I) do apply to the issuing of books to Post-Graduate students.

59

The University of Calcutta & Acharya P.C.Ray 1906-1944

REPORT

ON THE

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE FOR 1924-1925.

(Inspected on the 16th December, 1924.)

This Institution is affiliated to the Calcutta University in Botany to the I. A. & I. Sc. standards.

Students pay a tuition fee of Re. 1-8 per month and Rs. 4 per session for attending practical classes.

I. Governing Body.

Below are given the names of members of the Governing Body for the current session.
appointment.

The election of the President has not taken place since the death of Sir Asutosh Mookerjee, Kt.

President.

Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., etc.

Vice-Presidents.

Sir P. C. Ray, Kt., D.Sc., Ph.D.
Dr. B. L. Chawdhuri, D.Sc., F.L.S., etc.
Rai Bahadur Dr. Chunilal Bose, C.I.E., M.B., I.S.O., M.C.S., etc.
Dr. Ganesh Prasad, M.A., D.Sc.

The Governing Body held two ordinary meetings in the current session over and above a special general meeting to express its profound sorrow and its sense of loss at the death of its President.

II. Accommodation.

There has not been any change in the accommodation since the last inspection.

III. Arrangements for imparting Instruction.

The teaching staff consists of Professors Pal and Sen who draw the old pay of Rs. 175 and Rs. 170 respectively assisted by Babu Sukumar Ghosh, Demonstrator, who gets Rs. 60 per month.

praying that the orders of the Syndicate (item No. 34 of 5th February, 1926) refusing his application for condonation of deficiency in his attendance at lectures may be reconsidered, in view of the fact that his deficiency was caused by his absence from college owing to his being attacked by small-pox and subsequently by malarial fever, and that he may be allowed to appear at the B.A. Examination in 1926 as a non-collegiate student. It is stated by the Principal that the student passed in all subjects in the College test.

RESOLVED—

That the application be refused.

23. Read an application, forwarded for reconsideration by the Principal, Ripon College, Calcutta, from Ganeshchandra Raye, whose application for condonation of deficiency in attendance at lectures was refused by the Syndicate (item No. 31 of 5th February, 1926) praying that, as his attendance at lectures has fallen short of the prescribed minimum owing to several deaths in his family, his case may be reconsidered so as to enable him to proceed to the ensuing I.Sc. Examination as a non-collegiate student.

RESOLVED—

That the application be refused.

24. Read an application, forwarded for reconsideration by the Principal, Ripon College, from Satinath Mukherjee, whose application for condonation of deficiency in his attendance at lectures was refused by the Syndicate (item No. 31 of 5th February, 1926), praying that as his attendance at lectures has fallen short of the prescribed minimum owing to his continued ill-health, his case may be reconsidered so as to enable him to appear at the ensuing I.A. Examination as a non-collegiate student.

RESOLVED—

That the application be refused.

25. Read an application, recommended by the Principal, Presidency College, from the following student whose percentage of attendance of lectures has fallen short of the prescribed minimum owing to illness, and who has passed the College Test Examinations, praying for permission to appear at the ensuing I.Sc. Examination as a non-collegiate student.

Bimalchandra Mookerjee

RESOLVED—

That the Syndicate recommend to the Senate that the applicant be permitted to appear at the ensuing I.Sc. Examination as a non-collegiate student.

ORDERED—

To be recorded.

RESOLVED—

That the following gentlemen be appointed Examiners to conduct the M.B. Examinations, to be held in April, 1926 :—

PRELIMINARY SCIENTIFIC M.B. EXAMINATION.

INORGANIC CHEMISTRY.

1. Mr. Praphullachandra Ray, M.A.
2. „ Priyadaranjan Ray, M.A.
3. „ Hiralal Singh, B.A., L.M.S.
4. Prof. H. K. Sen, D.Sc.

PHYSICS.

1. Mr. Tulsidas Kar, M.A.
2. „ Manmohan Ray, M.Sc.
3. Prof. D. M. Bose, Ph.D.
4. Mr. P. C. Mahalanobis, B.A., B.Sc.

BOTANY.

1. Dr. Sahayram Bose, M.A., Ph.D.
2. Mr. Saileswar Mukherjee, L.M.S.
3. „ Surendrachandra Banerjee, M.A., B.Sc.
4. Dr. Girindranath Mookerjee, B.A., M.D.

ZOOLOGY.

1. Dr. Ekendranath Ghosh, M.Sc., M.D.
2. „ B. L. Chaudhuri, D.Sc., F.R.S.E.
3. Mr. G. L. Sondhi.
4. Major R. S. Seymour Sewell, I.M.S.

FIRST M.B. EXAMINATION.

ANATOMY.

1. Rai Nanilal Pan, Bahadur, M.B.
2. Mr. Manindranath Bose, M.B., C.M. (Edin.).
3. „ Saurendramohan Majumdar, M.B., F.R.C.S. (Eng.).
4. „ Dineschandra Chakrabarti, M.B., F.R.C.S.

PHYSIOLOGY.

1. Lt.-Col. A. C. MacGilchrist, M.A., M.D., D.Sc., M.R.C.P., I.M.S.

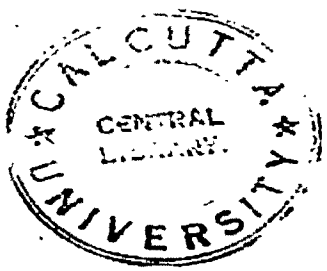
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1926

PART II



CALCUTTA UNIVERSITY PRESS

RESOLVED—

That the application be granted.

40. Read a letter from Prof. Sisirkumar Mitra, Secretary. House Committee, forwarding a copy of the Proceedings of the House Committee, dated the 29th March, 1926, on the subject of selection of a site for the erection of servants' and sweepers' quarters at 92, Upper Circular Road.

Read also a letter from Mr. M. N. Mukerjee, Engineer, forwarding a sketch of the site of the proposed extension of servants' and sweepers' quarters, prepared in consultation with the Committee, appointed by the Syndicate for the purpose.

RESOLVED—

That the site be approved.

41. Read a letter from Messrs. Wilson & Roy, forwarding an estimate of Rs. 1,000 for fixing a new pumping set in the Hardinge Hostel for the supply of unfiltered water.

ORDERED—

(1) That Professor Phanindranath Ghosh be requested to favour the Syndicate with a report on the matter.

(2) That a quotation for the work be invited from Messrs. Wilson & Roy.

42. The Registrar placed before the Syndicate an estimate for Rs. 207-4 from Messrs. Wilson & Roy for repair of 6 fans of the Darbhanga Buildings.

RESOLVED—

That the estimate be accepted.

43. Read an application from Binayaknath Banerjea, who was refused promotion to the 4th-year Class of the Presidency College, because, in the opinion of the Principal, he was believed to have attempted means of gaining improper advantage in the annual examination, and who has taken admission into the 3rd-year Class of St. Paul's C. M. College with a transfer certificate, praying that, as the Principal, St. Paul's College, is of opinion that he cannot be promoted to the 4th-year Class on the result of his annual examination there without the permission of the University, that Principal, St. Paul's College, may be permitted to promote him to the 4th-year Class on the results of the annual examination of the said college.

Read also a letter from the Principal, St. Paul's C. M. College, stating that he is ready to give a chance to the student if the University Regulations do not stand in the way.

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1926

PART III

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

Optional Subjects.

PRINCIPLES OF EQUITY.

Dr. Surendranath Sen, M.A., LL.D.

TRANSFER OF PROPERTY.

The Hon'ble Mr. Justice Bipinbihari Ghosh, M.A., B.L.

CONTRACTS AND TORTS.

The Hon'ble Mr. Justice Arthur Page, K.C., Bar.-at-Law.

REAL AND PERSONAL PROPERTY.

The Hon'ble Justice Sir G. C. Rankin, Kt., M.A.

HISTORY OF ENGLISH LAW.

Mr. H. D. Bose, Bar.-at-Law.

53. Read the Proceedings of the Board of Studies in Medicine, dated the 14th September, 1926.

ORDERED—

To be recorded.

RESOLVED—

That the following Boards of Examiners be appointed to conduct the Preliminary Scientific M.B., First M.B. and Final M.B. Examinations to be held in November, 1926:—

PRELIMINARY SCIENTIFIC M.B. EXAMINATION.

INORGANIC CHEMISTRY.

Mr. Praphullachandra Ray, M.A.
„ Priyadaranjan Ray, M.Sc.
Dr. H. K. Sen, D.Sc.
Mr. Hiralal Singh, B.A., L.M.S.

PHYSICS.

Mr. Tulsidas Kar, M.A.
„ Manmohan Ray, M.Sc.
„ P. C. Mahalanobis, B.A., B.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.

(HONOURS COURSE.)

(In addition to the books recommended for the Pass Course.)

A. C. Datta	...	Text-Book of Sound.
Draper	...	Heat and Thermodynamics.
S. C. Starling	...	Electricity and Magnetism.
Houston	...	Light.
Edser	...	General Physics.

The following books may also be consulted :—

Barton	...	Sound.
Poynting and Thomson	...	Sound.
Poynting and Thomson	...	Heat.

(HONOURS PRACTICAL.)

Watson	...	Practical Physics.
Glazebrook and Shaw	...	Do.,

RESOLVED—

That the Proceedings be confirmed, and that the books prescribed be notified in the Gazette.

46. The Registrar placed before the Syndicate the following report of the Committee appointed by the Syndicate on the 4th January, 1926, to consider whether the course in Chemistry taken up as a main subject in the B.Sc. Examination of the Bombay University is equivalent to the B.Sc. Honours Course in Chemistry of this University. :—

'UNIVERSITY COLLEGE OF SCIENCE
AND TECHNOLOGY,
DEPARTMENT OF CHEMISTRY.
92, UPPER CIRCULAR ROAD.

Calcutta, September 7, 1926.

THE REGISTRAR,
UNIVERSITY OF CALCUTTA.

DEAR SIR,

With reference to your letter No. Misc. 574-XXB, dated July, 1926, we beg to report that we consider the course in Chemistry taken up as the main subject in the B.Sc. Examination of the Bombay University is equivalent to the B.Sc.

Honours course in Chemistry of this University, and we recommend that students graduating from the Bombay University who have obtained first class marks in the main subjects be regarded as equivalent to our Honours graduates.

Yours faithfully,

J. N. MOOKERJEE.

P. C. MITTER.

P. C. RAY.'

RESOLVED—

(1) That the Report be adopted.

(2) That the qualification of a candidate passing the B.Sc. Examination of the Bombay or Mysore University in Chemistry in the first division be considered equivalent to that of one passing the B.Sc. Examination in Honours of this University.

47. Read the following **Proceedings of the Press and Publication Committee**, dated the 14th September, 1926 :—

'1. The Registrar placed before the Committee the following extract from the Minutes of the Syndicate, dated the 30th July, 1926, together with an estimate of cost of printing the six volumes of the translation of the "Vishnu Purana" by H. H. Wilson as also a copy each of the same :—

"Prof. H. C. Maitra, M.A., moved that new editions of Wilson's translations of the "Vishnu Purana" and Blackie's "Self-Culture" be published by the University with introduction and notes.

RESOLVED—

(1) That the cost for publishing Wilson's Translations of the Vishnu Purana be ascertained from the Press and Publication Committee.

(2) That the Publishers be asked to bring out an edition of Blackie's Self-Culture with introduction and notes, if possible."

ORDERED—

That the Syndicate be informed that the cost of reprinting 500 copies of the six volumes of Wilson's Translation of the Vishnu Purana will amount to Rupees eight thousand approximately.

(It was stated that it would be possible for him to spare a week or two in the coming December without inconvenience to his work.)

RESOLVED—

That the Governing Body recommend to the Senate that Prof. C. V. Raman be permitted to accept the invitation which he has received from the Nagpur University to visit Nagpur and Jubbulpur in the ensuing cold weather and to deliver a course of lectures under the auspices of the University.

3. Read a letter from Sir P. C. Ray, recommending that a Palit Research Scholarship in Chemistry might be granted to Bireschandra Guha, M.Sc., in the place of Praphullakumar Bose, M.Sc., whose term expired on the 31st July, 1926.

Note.—Necessary provision for the continuance of the Scholarship at the rate of Rs. 75 per month has been made in the Budget.

RESOLVED—

That a Palit Research Scholarship in Chemistry be given to Bireschandra Guha, M.Sc., with effect from the 1st August, 1926.

4. The Registrar reported that he had received the principal sum of Rs. 80,000 due from Mr. S. N. Tagore and that, under orders of the Syndicate, the amount had been invested in 5½ per cent. G. P. Notes of the face value of Rs. 1,02,000.

RESOLVED—

That, out of the interest, when accrued, Rs. 1,300 be invested in G. P. Notes as an addition to the corpus of the fund.'

RESOLVED—

(1) That the Proceedings be confirmed.

(2) That the Syndicate recommend to the Senate that Prof. C. V. Raman, M.A., D.Sc., F.R.S., be permitted to visit Nagpur and Jubbulpur in the ensuing cold weather and to deliver a course of lectures under the auspices of the Nagpur University, under the conditions stated in his letter.

52. Read the Proceedings of the Board of Management of the Khaira Fund, dated the 23rd September, 1926 :—

'1. Read a letter from Professor Jnanendranath Mookerjee, recommending that a Khaira Research Scholarship in Chemistry might be granted to Jyotikanta Basu, M.Sc., up to June, 1927, in the place vacated by Subodhgovinda Chaudhuri, with effect from the 1st August, 1926.

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1926

PART IV

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

17. Read an endorsement from Mr. M. N. Mukerji, Engineer, forwarding an estimate for Rs. 25 from Babu Jyotischandra Ghose, Contractor, for painting the electric fans of the Library Hall (Darbhanga Building, 1st floor).

Ordered—That the estimate be accepted.

18. Read a letter from Mr. W. N. Roseveare, Professor of Mathematics, Natal University College, who is now on long leave from the aforesaid University and will shortly be in India, desiring to know if he can be of any use to this University for examining or teaching.

Ordered—That the letter be referred to the Executive Committee of the Councils of Post-Graduate Teaching in Arts and Science.

19. Read a letter from Pandit Gauridatta Misra, Vidyabhusan, stating that he has collected some pieces in Assamese and that if the University publishes any Matriculation Assamese Selections on the same line as the Matriculation Bengali Selections, he will render every help in the compilation of the course.

Ordered—To be recorded.

20. Read a memo. from the Secretary, Council of Post-Graduate Teaching in Arts, forwarding for information a copy of the letter addressed by him to the Joint-Secretaries, Fourth Oriental Conference, Allahabad, forwarding the names of gentlemen who have been nominated as delegates to the conference.

Ordered—To be recorded.

21. Read an endorsement from the Vice-Principal, University Law College, forwarding an application from Amalaprasad Sinha, who has passed the Final Examination in Law, held in July, 1926 (bearing Roll Cal. No. 87), the result of which has not yet been published in the Calcutta Gazette, praying that, as he is in urgent need of his certificate for applying for a post in the Manbhum Wards and Encumbered Estates, he may be granted a provisional certificate before the result of the examination is published in the Gazette.

Ordered—That the application be granted.

22. Read a letter from the Secretary to the Government of Bengal, Department of Education, forwarding copy of a notification No. 3211 Edn., dated the 23rd September, 1926

The University of Calcutta & Acharya P.C.Ray 1906-1944

showing the composition of the Governing Body of the Bethune College for 1926-27 as mentioned below :—

The Director of Public Instruction, Bengal,—*President.*
The Principal, Bethune College, Calcutta,—*Secretary, Ex-Officio.*
The Hon'ble Dr. Sir Devaprasad Sarvadhikary, Kt., C.I.E.
Lady Bose.
Miss Stapleton, M.D. (Lond.).
Dr. Sir P. C. Roy, Kt., C.I.E., D.Sc.
Rai Chunilal Bose, Bahadur, C.I.E., I.S.O.
Mrs. P. K. Roy.
Mr. S. C. Mahalanobis, F.R.S.E., Professor, Presidency College.
Mr. B. L. Mitter.
Mrs. K. N. Roy.
Babu Narendranath Chakravarty, Representative of the College Staff.

Ordered—To be recorded.

23. Read a letter from the Principal, Cotton College, Gauhati, requesting that temporary sanction may be given to hold the First-year Class of the college of 156 students in view of the fact that the number will decline after the Pujas and will fall below 150.

Resolved—That the arrangement proposed be sanctioned.

24. Read an application, recommended by the Vice-Principal, City College, from Nirupam Bose, an unsuccessful candidate at the last B.Sc. Examination, who could not join any college at the commencement of the current session owing to serious illness, praying that as there is a seat vacant in the special section for unsuccessful B.Sc. students in the City College, he may be admitted to the same so as to enable him to proceed to the next B.Sc. Examination as a non-collegiate student.

Resolved—That the permission, asked for, be granted on condition that the applicant must apply, at the end of the session, after the test examination is over, for permission to appear at the next B.Sc. Examination as a non-collegiate student.

25. Read an endorsement from Mr. M. N. Mukerji, Engineer, forwarding a bill for Rs. 80 from Babu Jyotishchandra Ghose, Contractor, for repairing the cracks in the roof of the Hardinge Hostel.

Ordered—That the bill be paid.

J. C. Coyajee, Esq., B.A., LL.B.
Shams-ul-Ulama Maulvi Hidayet Husain, Khan Bahadur.
Miss G. M. Wright.
Khagendranath Mitra, Esq., M.A.
Prof. Pramathanath Banerjea, M.A., D.Sc., M.L.C.
Johan Van Manen, Esq.
R. B. Ramsbotham, Esq., M.S.E. M.A., B.Litt.
Syamaprasad Mookerjee, Esq., M.A., B.L.
Adityanath Mookerjee, Esq., M.A., Ph.D.
Khan Bahadur Tasadduq Ahmad, B.A.
Prof. Ganesh Prasad, M.A., D.Sc., M.L.C.
Rev. P. G. Bridge, D.D.
J. W. Holme, Esq., M.A.
Prof. S. Radhakrishnan, M.A.
Jadunath Sarkar, Esq., C.I.E., M.A.
Srikumar Banerjee, Esq., M.A.
Rai Bahadur Sadananda Dowera, M.L.C.
Matloob Ahmad Khan Chaudhri, Esq, M.A.

FACULTY OF SCIENCE.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Jnanchandra Ghosh, Esq., M.A.
Rev. J. Watt, M.A., D.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
A Macdonold, Esy., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotishchandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc., M.L.C.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S., (Lond.).

Rev. Father, E. Rosland, S.J.
Prof. Jnanendranath Mukerjee, D.Sc.
D. E. Robert, Esq., M.Sc.

152. Read the following joint report from the members of the Board of Adjudicators for the Nagarjuna Prize for 1925 :—

Calcutta, 21st December, 1926.

To

THE CONTROLLER OF EXAMINATIONS.

SIR,

We, the members of the Board of Adjudicators for the Nagarjuna Prize for 1925, are of opinion that the prize should be awarded to Mr. Praphullakumar Bose, M.Sc., for his thesis on (1) Mercaptens of the Purine growth and (2) Thiodiazines, parts I-IV.

Dr. B. B. Dey, who was co-opted as a member of the Board, agrees with us in this view.

We have, etc.,
P. C. RAY.
P. C. MITTER.
J. N. MUKERJEE.
H. K. SEN.'

Resolved—That the report be adopted.

153. Read the following Report of the Board of Examiners for the First M.B. Examination, November, 1926 :—

FROM

THE BOARD OF EXAMINERS FOR THE FIRST M.B. EXAMINATION IN NOVEMBER, 1926,

To

THE OFFG. CONTROLLER OF EXAMINATIONS,
CALCUTTA UNIVERSITY.

Dated, the 20th December, 1926.

SIR,

We have the honour to submit for the approval of the Vice-Chancellor and Syndicate the results of the First M.B. Examination held in November, 1926.

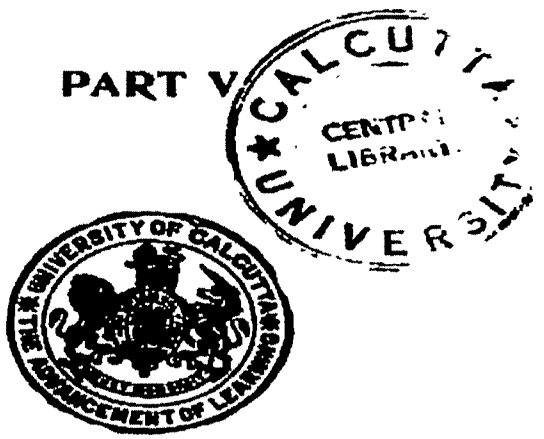
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1926

PART V



CALCUTTA UNIVERSITY PRESS

9

SCIENCE COLLEGE.

Receipts.	Budget.	Actuals.
	Rs.	Rs. A. P.
Receipts from Palit Trust—		
Contribution from First Trust ..	25,500	25,500 0 0
Contribution from Second Trust ...	19,610	19,175 12 1
Receipts from Ghose Trust—		
Contribution from First Trust ...	39,750	38,911 9 0
,, ,, Second Trust ...	44,604	43,702 10 8
Receipts from Khaira Fund—		
Contribution	19,800	19,800 0 0
Receipts from Fee Fund—		
Contribution for Laboratories and Repairs.	1,01872	1,00,606 7 8
Contribution for House Allowances of Ghose Professors.	9,600	12,300 0 0
Contribution (from P. G. T. Arts and Science).	.....	10,000 0 0
Government Grant	12,000	12,000 0 0
Miscellaneous	150	252 5 6
Total ...	2,72,886	2,83,278 12 11

Expenditure.	Budget.	Actuals.
Physics.	Rs.	Rs. A. P.
1. Palit Professor with H. A. ...	13,500	13,500 0 0
2. Ghose Professor ,, ,, ...	7,200	9,000 0 0
3. Guruprasad Singh Professor with H.A.	7,200	9,000 0 0
4. Research Asst. and Electrician ...	1,500	1,389 8 0
5. Laboratory Staff	2,500	2,623 8 0
6. Equipment and Working Expenses ...	11,000	10,762 8 6
7. Special Laboratory for the Guruprasad Singh Professor.	4,000	4,648 2 6
8. Research grant for the Palit Professor	10,000	9,770 1 7
9. ,, ,, ,, Ghose ,,	2,850	2,792 8 1
Total ...	60,050	63,486 5 8
Applied Physics.		
1. Ghose Professor with H. A. ...	7,200	9,000 0 0
2. Laboratory Staff	422	1,021 12 0
3. Grant to Professor for appliances ..	1,500	1,490 9 1
4. Equipment and Working Expenses	8,000	10,546 5 2
Total ...	17,122	22,058 10 3

3

14

SIR RASHBEHARY GHOSE TRAVELLING FELLOWSHIP FUND.

6 per cent. United Provinces Bonds ... ... Rs. 2,63,000

Receipts.		Actuals.
	Rs.	Rs. A. P.
Interests	15,780	15,780 0 0
Total ...		15,780 0 0
Opening Balance		12,410 2 6
Grand Total ...		28,190 2 6

Expenditure.		Actuals.
	Rs. A. P.	Rs. A. P.
Allowances of Fellows and Bank Commission and stamped cheques	20,206 8 6	20,206 8 6
Total ...		20,206 8 6
Closing Balance ...		7,983 10 0
Grand Total ...		28,190 2 6

Mr. P. C. Mahalanabis, B.A.*
„ Dwijendrakumar Majumdar, M.A.
Prof. Sisirkumar Mitra, D.Sc.
„ Jnanendranath Mookerjee, D.Sc.
Mr. Jogeschandra Mookerjee, M.A.
Dr. Bidhubhushan Ray, D.Sc.
Mr. Kamalaprasanna Ray, B.Sc., A.I. I.Sc.†
„ Bhupatimohan Sen, M.A., B.Sc.

CHEMISTRY.

Sir P. C. Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S.—*Chairman.*
Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.
Mr. Birajmohan Das, M.A., M.Sc.
„ Pabitranath Dasgupta, M.Sc.
Dr. Sasyaranjan Dasgupta, D.Sc.
Mr. Bidhubhushan Datta, M.A.
Dr. Rasiklal Datta, D.Sc.†
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst. P.
Dr. Mahendranath Goswami, D.Sc.
Mr. Kalikumar Kumar, M.Sc.
Mr. S. C. Mahalanabis, B.Sc., F.R.S.E.
„ Asutosh Maitra, M.A.
Prof. P. C. Mitter, M.A., Ph.D.
„ Jnanendranath Mookerjee, D.Sc.
Dr. Panchanan Neogi, M.A., Ph.D.
Mr. Bankimchandra Ray, M.Sc.
Dr. Jnanendranath Ray, M.Sc., Ph.D.
Mr. Kshitischandra Ray, M.Sc.†
„ Priyadaranjan Ray, M.A.
„ Pulinbihari Sircar, M.Sc.*
Prof. H. K. Sen, D.Sc.
Mr. R. N. Sen, M.A., M.Sc.
„ Subodhkumar Majumdar, M.Sc.

BOTANY.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.—*Chairman*
Prof. S. P. Agharkar, M.A., Ph.D.
„ P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
„ G. C. Bose, M.A., M.R.A.S.
„ S. C. Mahalanobis, B.Sc., F.R.S.E.
„ Srischandra Sinha, M.A., F.C.S.
„ Surendrachandra Banerjee, M.A., B.Sc., F.L.S.

PHYSIOLOGY.

Mr. S. C. Mahalanobis, B.Sc., F.R.S.E.—*Chairman.*
„ Nibaranchandra Bhattacharyya, M.A.
Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.
Mr. Narendramohan Bose, M.Sc.
Dr. Sidhanchandra Ray, B.A., M.D., M.R.C.P., F.R.C.S., M.L.C.
Dr. Bijalibihari Sircar, D.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

GEOLOGY.

Mr. Hemchandra Dasgupta, M.A., F.G.S.—*Chairman.*
„ G. C. Bose, M.A., M.R.A.S.
„ Sarathi Biswas, M.Sc.
„ Nirmalnath Chatterjee, M.Sc.

* On leave. † Resigned.

Mr. Rajanikanta De, M.A., B.Sc.	S. C. College Centre.
,, Charuchandra Bhattacharyya, M.A.	
Rev. Fr. Briot, S.J.	St. Xavier's College Centre.
Dr. Brajendranath Chakrabarti, D.Sc.	
Mr. Jitendranath Sen, M.A.	City College Centre.
Dr. Debendramohan Basu, M.A., Ph.D.	
Mr. Abinaschandra Saha, M.Sc.	Rajshahi College Centre.
,, Sushilkumar Acharyya, M.A.	
,, D.E. Roberts, M.Sc.	Gauhati Cotton College Centre.
Prof. Phanindranath Ghosh, M.A., Ph.D.	
Mr. Birendranath Sarkar, M.A.	Krishnath College Centre.
,, Amareschandra Chakerbarti, M.Sc.	
,, Purnachendra Kundu, M.A.	Chittagong College Centre.
,, Radhagobinda Bhowani, M.A.	
,, Rajendrachandra Banerjee, M.Sc.	Bankura Wesleyan College Centre.
,, Kamadacharan Chakrabarti, M.A.	
,, Hemchandra Sanyal, M.A.	Midnapur College Centre.
,, Manindranath Maitra, M.A.	
,, Surendranath Bose, M.A.	Dauiatpur College Centre.
,, Tulsidas Kar, M.A.	

CHEMISTRY.

Paper-Setters.

(Pass and Honours.)

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Prof. P. C. Mitter, M.A., Ph.D.
,, Hemendrakumar Sen, D.Sc.
,, J. N. Mookerjee, D.Sc.
,, J. C. Ghosh, D.Sc.
Dr. Sudhamay Ghosh, D.Sc.

Examiners.

Theoretical.

(Honours.)

Rai Jyotibhushan Bhaduri, Bahadur, M.A.
Dr. Panchanan Neogi, M.A., Ph.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.
,, Jnanendranath Mookerjee, D.Sc.

(Pass.)

Mr. Chunilal De, M.A.
,, Kalidas Mallik, M.A.
,, Kiranchandra Mitra, M.A.
,, Dhirendranath Mukerjee, M.A.

Practical

(Honours.)

Rev. Father J. Van Neste, S.J.	University College of Science Centre.
Dr. Hemendrakumar Sen, D.Sc.	
Mr. Priyadaranjan Ray, M.Sc.	

(Pass.)

Prof. Praphullachandra Mitter, M.A., Ph.D.	(Convener).
Mr. Rajendranath Sen, M.A., M.Sc.	Presidency College Centre.
Dr. Hemendrakumar Sen, D.Sc.	

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1926

CALCUTTA UNIVERSITY PRESS

MINUTES OF THE FACULTY OF SCIENCE

FOR THE YEAR 1926

No.

THE 13TH MARCH, 1926.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.	Charuchandra Bhattacharyya, Esq., M.A.
Girischandra Bose, Esq., M.A., M.R.A.S.	Nibaranchandra Bhattacharyya, Esq., M.A.
H. E. Stapleton, Esq., M.A., B.Sc.	Hemchandra Dasgupta, Esq., M.A., F.G.S.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.	Nibaranchandra Ray, Esq., M.A.
Jnanchandra Ghosh, Esq., M.A.	Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.
Rev. J. Watt, M.A., D.D.	Himadrikumar Mookerjee, Esq., M.Sc.
Prof. Prafullachandra Mitter, M.A., Ph.D.	S. Sinha, Esq., B.Sc. (Illinois).
Jyotishchandra Mitra, Esq., M.A., B.L.	Prof. S. P. Agharkar, M.A., Ph.D.

1. The Faculty met to nominate a member of the Faculty on the Special Committee for the "Kamala Lectureship" for 1926.

On the proposal of Prof. Prafullachandra Mitter, M.A., Ph.D., seconded by Mr. Nibaranchandra Ray, M.A., Mr. Girischandra Bose, M.A., M.R.A.S., was nominated a member of the Faculty on the Special Committee for the "Kamala Lectureship" for 1926.

2. The Faculty then proceeded to nominate a member to the Students' Information Bureau, in place of Mr. Subodhchandra Mahalanobis, B.Sc., F.R.S.E., whose term of office as an Ordinary Fellow expired on the 31st December, 1925, and who has since been re-appointed an Ordinary Fellow.

On the proposal of Prof. Praphullachandra Mitter, M.A., Ph.D., seconded by Mr. Nibaranchandra Ray, M.A., Mr Subodhchandra Mahalanobis, B.Sc., F.R.S.E., was nominated representative of the Faculty on the Students' Information Bureau.

(Confirmed.)

P. C. RAY, *Dean.*

J. C. GHOSH, *Registrar*

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

(*Special*,)

FOR THE YEAR 1926.

No. 6.

THE 13TH MARCH, 1926.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Girischandra Bose, Esq., M.A., M.R.A.S.
H. E. Stapleton, Esq., M.A., B.Sc.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Jnanchandra Ghosh, Esq., M.A.
Rev. J. Watt, M.A., D.D.
Prof. Prafullachandra Mitter, M.A., Ph.D.
Jyotischandra Mitra, Esq., M.A., B.L.
Charuchandra Bhattacharyya, Esq. M.A.
Nibaranchandra Bhattacharyya, Esq., M.A.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Nibaranchandra Ray, Esq., M.A.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.I.S.
Himadrikumar Mookerjee, Esq., M.Sc.
S. Sinha, Esq., B.Sc. (Illinois).
Prof. S. P. Agharkar, M.A., Ph.D.

The Faculty met to elect members of the Boards of Studies for the year 1926-27 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology, and also to elect *not more than two* members for the Board of Studies in Experimental Psychology, *not more than two* members for the Board of Studies in Mathematics, *not more than six* members for the Board of Studies in Geography and *not more than three* members for the Board of Studies in Teaching.

The University of Calcutta & Acharya P C.Ray 1906-1944

The undermentioned gentlemen were nominated for election to the Boards of Studies under which their names appear :—

(*10*) *Board of Studies in Chemistry.*

1. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
2. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
3. Girischandra Bose, Esq., M.A., M.R.A.S.
4. H. E. Stapleton, Esq., M.A., B.Sc.
5. Subodhchandra Mahalanobis, Esq., B.Sc., F.C.S.E.
6. Sir Praphullachandra Ray, Kt., C.I.E., D Sc., Ph.D., F C.S.
7. Jnanchandra Ghosh, Esq., M.A.
8. Rev. J. Watt, M.A., D.D.
9. Prof. Praphullachandra Mitter, M.A., Ph.D.
10. D. Thomson, Esq., M.A., B.Sc., Ph.D.
11. Prof. Hemendrakumar Sen, M.A., D.Sc.
12. S. Sinha, Esq., B.Sc.

(*11*) *Board of Studies in Mathematical and Experimental Physics.*

1. Girischandra Bose, Esq., M.A., M.R.A.S.
2. Prof. P. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
3. Jnanchandra Ghosh, Esq., M.A.
4. Rev. J. Watt, M.A., D.D.
5. Prof. Praphullachandra Mitter, M.A., Ph.D.
6. D. B. Meek, Esq., M A., D.Sc., F.R.Met.S.
7. D. Thomson, Esq., M.A., B.Sc., Ph.D.
8. Rai Abinaschandra Bose, Bahadur, M.A.
9. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
10. Prof. C.V. Raman, M.A., D.Sc., F.R.S.
11. Prof. Ganesh Prasad, M.A., D.Sc., M.L.C.
12. Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S.
13. Gharuchandra Bhattacharyya, Esq., M.A.
14. Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.
15. Nibaranchandra Ray, Esq., M.A.
16. Prof. Hemendrakumar Sen, M.A., D.Sc.

(*12*) *Board of Studies in Zoology.*

1. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
2. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.

Minutes of the Faculty of Science

(*Special*)

FOR THE YEAR 1926.

No. 9.

THE 18TH DECEMBER, 1926.

Present :

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.,
Dean in the Chair.

Rai Chunilal Bose, Bahadur, C.I.E., M.B., L.S.O., F.C.S.	Rev. J. Watt, M.A., D.D.
Kedareath Das, Esq., C.I.E., M.D.	Prof. Praphullachandra Mitter, M.A., Ph.D.
Jnanchandra Ghosh, Esq., M.A	Rev. Father E. Rocland, S. J.

The Faculty met to elect two Representatives on the Syndicate for the year 1927-28. (Of the two Representatives, one at least should be either Head of, or Professor in, a College affiliated to this University).

The undermentioned gentlemen had been nominated for election :—

Name.	Proposed by.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.	Prof. Jnanendranath Mookerjee, D.Sc.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.	Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Sir Nilratan Sircar having declined to stand as a candidate for election, his name was omitted from the list of candidates proposed for election.

The Faculty first proceeded to elect a Representative who must be either the Head of, or Professor in, a College affiliated to the University.

Mr. Subodhchandra Mahalanobis, being the only candidate who satisfied the above condition, was declared duly elected to the Syndicate for the year 1927-28.

Under Section 63, Chapter I of the Regulations, Prof. Praphullachandra Mitter was declared duly elected as the second Representative on the Syndicate for 1927-28, as there was no other candidate for such election.

(Confirmed).

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar

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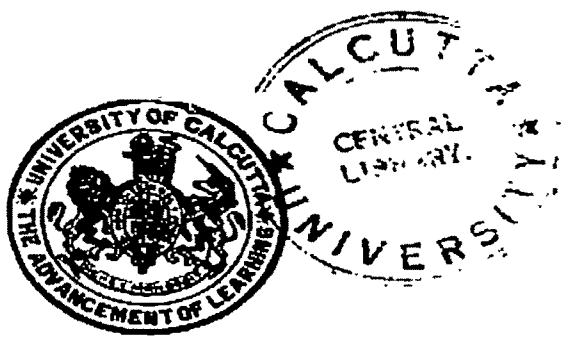
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1927

PART I



CALCUTTA UNIVERSITY PRESS

PHYSICS.

(Pass and Honours.)

Mr. Jnanchandra Ghosh, M.A.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Dr. Sisirkumar Mitra, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.
Mr. Satyendranath Bose, M.Sc.
Prof. Phanindranath Ghosh, M.A., Ph.D., D.Sc.

CHEMISTRY.

(Pass and Honours.)

Sir Prophullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Prof. Prophullachandra Mitter, M.A., Ph.D.
Dr. Jatindranath Sen, M.A., Ph.D.
Prof. Jnanendranath Mookerjee, D.Sc.
Dr. Jnanendrachandra Ghosh, D.Sc.
Mr. Priyadaranjan Ray, M.Sc.

BOTANY.

(Pass and Honours.)

Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Mr. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Prof. S. P. Agharkar, M.A., Ph.D.
Dr. Sahayram Bose, D.Sc.
,, Krishnadas Bagchi, M.A., D.Sc.
,, Birbal Sahany, D.Sc.

GEOLOGY AND MINERALOGY.

(Pass and Honours.)

Dr. G. Pilgrim, D.Sc.
Prof. P. J. Brühl, D.Sc., I.S.O., F.C.S., F.G.S.
Dr. Cyril Fox, D.Sc.

PHYSIOLOGY.

(Pass and Honours.)

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Lt.-Col. A. C. MacGillchrist, M.A., M.D., D.Sc., I.M.S.
Rai Bahadur Dr. U. N. Brahmachari, M.A., M.D., Ph.D.
Rai Satischandra Banerjee, Bahadur, L.M.S.

ZOOLOGY.

(Pass and Honours.)

Dr. Hemchandra Ghosh, M.Sc., M.D., F.Z.S.
B. L. Chaudhuri, D.Sc.

The University of Calcutta & Acharya P.C.Ray 1906-1944

phthalic acid, phthaleins, anthracene, anthraquinone, alizarin, anthranilic acid, indigo, pyridine, piperidine, quinoline, conine, and general properties of the alkaloids.

Inorganic Chemistry Practical—The mixture for qualitative analysis may include not more than four salt radicals, positive or negative, from the following list:—Silver, lead, mercury, copper, bismuth, cadmium, tin, arsenic, antimony, iron, manganese, aluminium, chromium, zinc, cobalt, calcium, strontium, barium, magnesium, potassium, sodium, ammonium and their oxides, hydroxides, chlorides, bromides, iodides, sulphites, sulphates, chromates, carbonates, phosphates, nitrates, nitrites, borates, silicates, cyanides and thiocyanates.

Organic Chemistry Practical—A mixture of any two substances prescribed for the Pass Practical Course.

Questions may also be set on quantitative estimation of nitrogen, carbon and hydrogen in organic bodies and estimation of molecular weight of organic acids.

Physical Chemistry Practical—Determination of molecular weights of acids, vapour density by Victor Meyer's method; determination of density of liquids, measurement of solubility, of simple salts.

P. C. RAY.
CHUNILAL BOSE.
P. C. MITTER.

Prof. Hemendrakumar Sen seconded the motion.

Mr. Niharanchandra Ray moved that the following words be left out from resolution (2):—

Chemistry—

"Conception of Chemical equilibrium," "elementary knowledge of the theory of electrolytic dissociation," "Conception of the velocity of a chemical reaction," "Boron, boric acid and borates, Arsenic, arsenious and arsenic oxide," and "gold," and that before "Periodic classification," the words "General principles of" be added, and after "Chorates," the words "of potassium and calcium" be added, and that "borax" be substituted for "borates" and that "sulphuric acid" and "electrolysis of water" be left out of the practical course.

Mr. Hemchandra Dasgupta seconded the amendment which was accepted by the mover of the original motion.

Mr. S. Sinha moved that in page 2, under Practical Course, in the 11th line, the words "following list:—ammonium, sodium, potassium, calcium, magnesium, zinc, mercury, copper, silver,

their oxides, hydroxides, chlorides, bromides, iodides, sulphides, sulphites, sulphates, chromates, carbonates, phosphates, nitrates, nitrites, borates, silicates, cyanides and thiocyanates. Alkalimetry, acidimetry, oxidation and reduction methods of volumetric analysis, gravimetric estimation of copper, silver, iron and sulphuric acid, determination of chemical equivalent. Identification of the following organic compounds given singly :—

Methyl alcohol, ethyl alcohol, acetone, chloroform, formic, acetic, oxalic and tartaric acids, glycerol, citric acid, urea, dextrose, canesugar starch, benzene, benzoic acid, aniline, phenol, salicylic acid.' "

Read also a letter from Prof. Praphullachandra Mitter, M.A., Ph.D., giving notice that he will move at the next meeting of the Senate that the draft syllabus for the I.A. and I.Sc. Examinations in Chemistry and B.A and B.Sc. Examinations (Pass) in Chemistry as recommended by the Faculty of Science (*vide* item No. 28, dated 21st February, 1927) be adopted and the necessary changes made in the Regulations.

Ordered—To be recorded.

Resolved—That the Minutes together with the letter be placed before the Senate.

75. Read the following Minutes of the Faculty of Science (Special), dated the 20th January, 1927 (*re.* election of an Ordinary Fellow) :—

" The Faculty met to elect an Ordinary Fellow in place of Prof. Praphullachandra Mitter, M.A., Ph.D., whose tenure of office as an Ordinary Fellow would expire, under Section 4 of the Indian Universities Act, 1904 (VIII of 1904), as amended by Act No. VII of 1921, on the 13th February, 1927.

On the motion of Dr. Ganes Prasad and seconded by Mr. S. C. Sinha, Rai Bahadur Chunilal Bose was, in the absence of the Dean, voted to the chair.

The undermentioned gentleman had been nominated for election :—

Name.	Proposed by.
Prof. Praphullachandra Mitter, M.A., Ph.D.	1. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S. 2. D. Thomson, Esq., M.A., B.Sc., Ph.D. 3. S. Sinha, Esq., B.Sc. (Illinois).

6th August, 1926, may be permitted to appear at the ensuing B.Sc. Examination as non-collegiate students :—

M. Radhakrishnan	Aswinikanta Bhattacharyya
Pramodkumar Mukherjee	Hazaripada Pal
Harendrakumar Das	Upendranath Sanmajumdar
Gobindachandra Datta	Kalipada Banerjee
Amiyamohan Chatterjee	Gopimohan Bose.
Saratchandra Karmakar	

Resolved—That the Syndicate recommend to the Senate that the applicants be permitted to appear at the ensuing B.Sc. Examination as non-collegiate students.

24. Read a letter from the Assistant Secretary to the Government of Bengal, Department of Education, forwarding a copy of Notification No. 203, dated the 14th January, 1927, showing the following composition of the Governing Body of the Bethune College, Calcutta, for the academic year 1927-28 :—

1. The Director of Public Instruction, Bengal, *President (ex-officio)*.
2. The Principal, Bethune College, Calcutta, *Secretary (ex-officio)*.
3. Dr. Sir Devaprasad Sarvadhikary, Kt., C.I.E., M.L.C.
4. Lady Bose.
5. Miss Stapleton, M.D. (London).
6. Dr. Sir P. C. Ray, Kt., C.I.E., D.Sc.
7. Rai Chunilal Bose, Bahadur, C.I.E., I.S.O.
8. Mrs. P. K. Ray.
9. Mr. S. C. Mahalanobis, F.R.S.E., Professor, Presidency College, Calcutta.
10. Mrs. K. N. Ray.
11. Mr. B. L. Mitter, Advocate-General, Bengal.
12. Babu Krishnachandra Bhattacharyya, representative of the College staff.

Ordered—To be recorded.

25. Read a letter from the Hony. Secretary to the Governing Body of the Narasinha Dutt College, Howrah, applying for extention of affiliation of the College in English (Pass), Bengali, Sanskrit (Pass), Philosophy (Pass), Mathematics (Pass), Chemistry (Pass), History (Pass), and Botany (Pass), to the B.A. standard and in Mathematics (Pass), Chemistry (Pass) and Botany (Pass) to the B.Sc. standard with effect from the beginning of the session 1927-28.

3. Read a letter from the Palit Professor of Physics, requesting that the tenure of the Palit Research Scholarship, awarded to Mr. Kedareswar Banerjee, which expired on the 31st December, 1926, might be extended up to the 30th June, 1927. It was stated that the extension was necessary to enable Mr. Banerjee to complete his thesis for the Doctorate Degree.

Resolved—That the Research Scholarship held by Mr. Kedareswar Banerjee be renewed up to the 31st May, 1927, with effect from the 1st January, 1927.

5. Read a letter from the Palit Professor of Physics, requesting that he might be permitted to appoint, with effect from the 1st January, 1927, in the grade of Rs. 100-10-150, Mr. Sukumarchandra Sarkar, M.Sc., *vice* Mr. Durgaprasanna Acharyya, resigned.

It was stated that Mr. Sarkar took his B.Sc. Degree with First Class Honours in Physics and stood second in order of merit at the M.Sc. Examination. Mr. Sarkar is a Palit Scholar in Physics.

Resolved—That Mr. Sukumarchandra Sarkar, M.Sc., be appointed a Research Assistant, in the grade of Rs. 100-10-150, with effect from the 1st January, 1927, in place of Mr. Durgaprasanna Acharyya, resigned.

6. The Registrar reported that the term of Sir Praphullachandra Ray as Palit Professor of Chemistry would expire on the 30th June, 1927.

Read also the following letter from Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S. :—

'UNIVERSITY COLLEGE OF SCIENCE
AND TECHNOLOGY,

DEPARTMENT OF CHEMISTRY,
92, UPPER CIRCULAR ROAD.
Calcutta, the 24th January, 1927.

To

THE REGISTRAR,
CALCUTTA UNIVERSITY.

DEAR SIR,

My attention was drawn only yesterday to the additional item No. 6 in the Agenda of to-day's meeting of the Governing Body of the Palit Trust.

Five years ago, when I completed my sixtieth year, I wrote to the Governing Body expressing my willingness to retire from service and I dropped a hint to the late Sir Asutosh Mookerjee that I should be glad to serve as Emeritus Professor during the rest of my life. I was, however, persuaded by the Governing Body to retain my Professorship for another term of five years and I consented to do so without any remuneration.

Although my zeal for Chemical research is as yet unabated and although, during recent years, the activity of my Department is perhaps greater than ever as is proved by the number of contributions in the Journal of the Indian Chemical Society by myself and my pupils, I do not like to stand in the way of promotion of junior claimants. I would, however, like very much to continue as Emeritus Professor and to work in the Laboratory as usual.

Yours truly,
P. C. RAY.'

Resolved—That the Governing Body of the Sir Taraknath Palit Trust, recommend to the Senate that Sir Praphullachandra Ray, Kt., be appointed to the Chair of T. N. Palit Professorship in Chemistry for a term of five years more, with effect from 1st July, 1927, inasmuch as his continuance as Palit Professor of Chemistry is, in the opinion of the University, necessary in the interest of research.

7. Read a letter from the Corporation of Calcutta, regarding the revision of alignment of Ballygunge Circular Road.

Read also a letter from Mr. Manmathanath Mukherji, Engineer, on the subject.

Resolved—That consideration of the matter be postponed for the present.

8. Read a letter from Sir Praphullachandra Ray, Kt., recommending that Mr. Nirmalendunath Ray, who obtained the first place in Class I in Inorganic Chemistry, at the last M.Sc. Examination, be awarded a Palit Research Scholarship in place of Mr. Bireschandra Guha, resigned, from 1st January, 1927.

Resolved—That a Palit Research Scholarship, tenable for one year, be awarded to Mr. Nirmalendunath Ray, M.Sc., in place of Mr. Bireschandra Guha, resigned, with effect from the 1st January, 1927."

Resolved—That the Proceedings be confirmed.

40

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1927

PART II

CALCUTTA UNIVERSITY CENTRAL LIBRARY

CALCUTTA UNIVERSITY PRESS

Botany.

	Rs.	A.	P.
Scientific Instrument Co.	30	0	0

Zoology.

	Rs.	A.	P.
B. Warren	45	6	0
Do.	88	2	0
Adair Dutt & Co.	57	0	0
Do.	111	0	0
Scientific Supplies (Bengal) Co. ...	359	8	0
Do.	62	0	0

Experimental Psychology.

	Rs.	A.	P.
Gita Flute Co.	61	8	0
West End Watch Co.	100	0	0

Resolved—That the action taken be approved.

9. The Secretary reported that he had passed the following bills for payment out of the research grants of the University Professors concerned :—

Bien Artium Company ... .. Rs. 285 8 0
(Prof. C. V. Raman.)

Bengal Chemical and Pharmaceutical Works, Ltd. Rs. 219 0 0
(Sir P. C. Ray.)

Calcutta Pottery Works ... ... Rs. 36 0 0
(Sir P. C. Ray.)

J. C. Ghosh ... ... Rs. 55 3 0
(Paid out of the non-recurring research grant of Dr. H. K. Sen).

Nadia Chemical Works ... Rs. 199 6 3
(Paid out of the non-recurring research grant of Dr. H. K. Sen).

Resolved—That the action taken be approved.

10. Considered proposals from the various departments of the University College of Science for increments of salary of the members of the laboratory staff and for additional appointments.

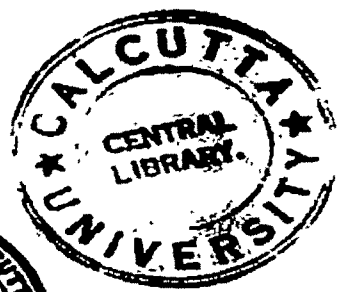
University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1927

PART III



CALCUTTA UNIVERSITY PRESS

30. Read a letter from Prof. S. K. Mitra, D.Sc., reporting that the owner of the premises No. 13, Giris Vidyaratna Lane has opened out two unauthorised windows in a wall overlooking the grounds of the Science College and that the owner of the premises No. 13-1, Giris Vidyaratna Lane has demolished a portion of the boundary wall of the Science College without any authority or permission.

Read also a letter from Mr. M. N. Mukherjee, University Engineer, stating the above facts and reporting that he saw Sir P. C. Ray on the matter who, it is stated, told the owners of the above premises to give an undertaking in writing to the Registrar that they had opened the windows and they would close them when required to do so by the University. The Engineer suggests that if such undertaking is not furnished the best course is to close these openings by masonry walls.

Read also a letter from Babu Debendranath Bose, owner of the premises No. 13-2, Giris Vidyaratna Lane, stating that he has small openings in his house facing the Science College ground and that if the openings are not enlarged the house will be insanitary for habitation. He, therefore, prays that he may be allowed to do so. It is stated that he is ready to give an undertaking that the University will be at liberty to close the openings at any time it likes. A certificate in support of this application is submitted from Sir P. C. Ray.

Read also a letter from Mr. M. N. Mukherjee, B.E., University Engineer, submitting a report regarding the windows and loop-holes that have been opened out overlooking the Science College Building.

Resolved—That the Vice-Chancellor be requested to hold a personal enquiry.

31. The Registrar placed before the Syndicate a bill for Rs. 64 from Messrs. Wilson & Roy for repairing two fans in the Registrar's Office.

Ordered—That the bill be paid.

32. Read a letter from the Principal, Vidyasagar College, submitting, in reply to this Office letter No. C. 4299, dated the 8th May, 1927, the proposed time-table of the B. Com. Classes of the Vidyasagar College and stating that the Governing Body of the College has resolved that the Principal of the College should be in direct charge of the Commerce Department, who will attend College not only as now but also in the evening.

	Rs.	A.	P.
Scientific Supplies (Bengal)	27	12	0
The Calcutta Furniture Manufacture Co. ...	233	8	0
B. K. Datta & Co.	620	6	0
H. E. Metzkes & Co.	176	6	0
S. Biswas & Co.	22	3	3
Modern Electric Co.	99	0	0
The Scientific Supplies (Bengal) ...	56	6	6
Do.	24	12	0

ZOOLOGY DEPARTMENT.

Ajodhyaprasad Mitra & Co.	55	10	0
H. E. Metzkes & Co.	48	10	0
Scientific Supplies	314	13	3
Adair Dutt & Co.	1	0	0
Indian School Supply Depot	13	8	0
Pioneer Engineering Co.	21	6	0
D. Waldie & Co.	190	0	0
Indian School Supply Depot	13	0	0

EXPERIMENTAL PSYCHOLOGY DEPARTMENT.

Philip & Ray	49	0	0
Remington Typewriter & Co.	38	6	0

WORKSHOP.

Alfred Herbert (India) Ltd.	30	0	0
Kishorchunder Paul & Co.	288	7	0

Resolved—That the action taken be approved.

13. The Secretary reported that he had passed the following bills for payment out of the Research Grants of the University Professors concerned :—

PROF. C. V. RAMAN

Scientific Instrument Co.	375	0	0
Do.	398	3	0
Do.	150	0	0
L. G. Vimer	855	0	0
	£.	s.	D.
Cambridge Instrument Co.	1	7	6
Do.	26	18	3
Balmer Lawrie & Co. ...	Rs. 188	0	0
Adair Dutt & Co. ...	.. 1995	0	0

PROF. D. M. BOSE

		Rs.	A.	P.
Scientific Instrument Co.	... ...	285	3	0
Do.	... ...	697	11	0
Do.	... ...	1,296	0	0
Simens (India), Ltd.	... ...	£ 33	0	0
Do.	...	Rs. 1,521	4	0

PROF. P. N. GHOSH

Kinkarchandra Paul & Co.	... ...	188	4	0
Dwarkin & Sons ...	... ...	20	7	0
Simens (India), Ltd.	... ...	48	0	0
Scientific Instrument Co.	... ...	448	8	0

SIR P. C. RAY

Adair Dutt & Co. ...	... ...	30	4	0
Light Foot Refrigeration Co.	... ...	57	8	0
Bengal Chemical ...	.. ...	359	11	0
Do. ...	.. ...	107	13	9
Do. ...	... ...	993	14	6
Scientific Instrument Co.	... ...	309	3	3
Do. ...	... ...	113	11	0
Do. ...	... ...	117	10	0
Do. ...	... ...	595	3	0
Scientific Supplies (Bengal)	... ...	202	12	6
Nadia Chemical Works	... ...	69	6	6
Bengal Chemical and Pharmaceutical Works Ltd.		220	0	0
Scientific Instrument Co.	... ...	478	13	0
Do. ...	... ...	71	0	0

PROF. P. C. MITTER

Scientific Supplies (Bengal)	... ...	208	11	3
The Bengal Stores Supply Co.	... ...	46	12	0
Scientific Supplies (Bengal)	... ...	89	14	0
Bengal Perfumery Co.	... ...	28	8	0
Adair Dutt & Co. ...	... ...	24	12	0
Bengal Scientific Apparatus & Minerals Co.	...	-	4	0
Scientific Instrument Co.	... ...	80	6	0
Nadia Chemical Works	... ...	308	4	3

may be officially recognised by the University as it will induce students to present themselves for medical examination and facilitate the work of the Committee which greatly suffers on account of the absence of such a rule.

Ordered—That the Honorary Secretary be informed that under the Regulations the proposal cannot be given effect to.

11. Read a letter from the Principal, Chittagong College, requesting that as a special case, he may be permitted to admit two students in excess of the prescribed number into the 1st-year I.Sc. Class of the College this session as they belong to the district of Chittagong and are too poor to manage the expenses of their education elsewhere.

Resolved—That the permission asked for be granted.

12. Read the following Proceedings of the Governing Body August, of the University College of Science, dated the 6th and 11th 1927 :

Proceedings of the Governing Body of the University College of Science.

FOR THE YEAR 1927-28.

No. 3.

THE 6TH AUGUST, 1927.

Present.

Mr. Jadunath Sarkar, C.I.E., M.A., *President, in the Chair.*

Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D.
Mr. Girischandra Bose, M.A., M.R.A.S.
,, Jnanranjan Banerjee, M.A., B.L.
,, Ramaprasad Mookerjee, M.A., B.L.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Mr. Herambachandra Maitra, M.A.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. P. C. Mitter, M.A., Ph.D.
,, N. R. Sen, D.Sc., Ph.D.
,, S. P. Agharkar, M.A., Ph.D.
,, B. K. Sen, M.A., D.Sc.
Prof. P. N. Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Mr. Panchanan Sinha, M.A.
Dr. Bidhubhushan Ray, D.Sc.
Mr. Durgadas Banerjee, M.Sc
,, Priyadaranjan Ray, M.A.
,, Kalikumar Kumar, M.Sc.
,, Durgadas Mookerjee, M.Sc.
Dr. Narendranath Sengupta, M.A., Ph.D.
Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.
Prof. J. N. Mukherjee, D.Sc.
,, S. K. Mitra, D.Sc.
,, B. K. Das, D.Sc.

1. Considered the question whether University Lecturers attached to the Presidency College or any other affiliated Col-

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1927

PART IV

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

38 Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law
39 Adityanath Mookerjee, Esq., M.A., Ph.D.
40 Khan Bahadur Tasadduq Ahmad, M.A.
41 Prof. Ganesh Prasad, M.A., D.Sc.
42 Rev. P. G. Bridge, D.D.
43 J. W. Holme, Esq., M.A.
44 Prof. S. Radhakrishnan, M.A.
45 Jadunath Sarkar, Esq., C.I.E., M.A.
46 Srikumar Banerjee, Esq., M.A.
47 Matloob Ahmad Khan Chaudhuri, Esq., M.A
48 Prof. Sunitikumar Chatterjee, M.A., D.Litt. (Lond.).
49 Binaykumar Sen, Esq., M.A.
50 A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
51 Satischandra Ghosh, Esq., M.A.
52 Narendranath Law, Esq., M.A., Ph.D.
53 Rev. George Ewan, M.A., Ph.D.
54 The Hon'ble Mr. Justice Leonard Wilfred James Costello, M.A., LL.B., Barrister-at-Law

FACULTY OF SCIENCE.

1 H. E. Stapleton, Esq., M.A., B.Sc.
2 Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
4 Kedarnath Das, Esq., C.I.E., M.D.
5 Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
6 Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
7 Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
8 Rai Jnanchandra Ghosh, Bahadur, M.A
9 Rev. J. Watt, M.A., D.D.
10 Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.
11 Prof. Praphullachandra Mitter, M.A., Ph.D.
12 D. Thomson, Esq., M.A., B.Sc., Ph.D.
13 Rev. A. E. Brown, C.I.E., M.A., B.Sc.
14 A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.)
15 Prof. C. V. Raman, M.A., D.Sc., F.R.S.
16 Jyotishchandra Mitra, Esq., M.A., B.L.
17 Prof. Ganesh Prasad, M.A., D.Sc
18 Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
19 Rev. Father E. Roeland, S.J.
20 Prof. Jnanendranath Mukharjee, D.Sc.
21 D. E. Roberts, Esq., M.Sc.
22 Prof. Debendramohan Bose, M.A., B.Sc., Ph.D (Berlin).

University of Calcutta

MINUTES OF THE SYNDICATE

FOR THE YEAR

1927

PART V

CALCUTTA UNIVERSITY CENTRAL LIBRARY.

CALCUTTA UNIVERSITY PRESS

SIR RASHBEHARY GHOSE FUND.

FIRST GIFT.

4 per cent. Calcutta Municipal and Port Trust Debentures ... Rs. 10,00,000

Receipts.	Budget.	Actuals.
	Rs.	Rs. A. P.
Interest	40,000	40,000 0 0
Opening Balance	10,396	11,266 6 6
Grand Total ...	50,396	51,266 6 6

Expenditure.	Budget.	Actuals.
	Rs.	Rs. A. P.
Salary of Professor of Mathematics ...	6,000	6,000 0 0
,, ,, Physics ...	6,000	6,000 0 0
,, ,, Chemistry ...	6,000	6,000 0 0
,, ,, Botany ...	6,000	6,000 0 0
Scholarships	7,200	5,952 8 0
Bank Commission and Stamped Cheques, etc.	150	100 4 0
Research Grant for the Professor of Physics.	5,000	4,990 15 2
Research Grant for the Professor of Chemistry.	3,000	3,001 5 6
Research Grant for the Professor of Botany	3,000	784 14 0
Total ...	43,350	38,833 14 8
Closing Balance	8,046	12,427 7 10
Grand Total ...	50,396	51,266 6 6

17

SIR TARAKNATH PALIT FOREIGN SCHOLARSHIP FUND.

		Rs.
1. 5½ per cent. War Bonds 1928	...	5,000
2. 6 „ U. P. Bonds	..	1,01,300
Total	...	1,06,300

Receipts.	Budget.	Actuals.
	Rs.	Rs. A. P.
Interests, etc.	6,353	6,353 0 0
Total ...	6,353	6,353 0 0
Opening Balance	1,666	1,609 8 4
Grand Total ...	8,019	7,962 8 4

Expenditure.	Budget.	Actuals.
	Rs.	Rs. A. P.
Scholarship	7,000	4,428 6 0
Commission, etc.	50	15 4 0
Total ...	7,050	4,443 10 0
Closing Balance	969	3,518 14 4
Grand Total ...	8,019	7,962 8 4

		Rs.
Thakurdas Prasannamayi Devi, Kedarnath Memorial Fund	...	9,900
Thakurdas Kerr Medal Fund	...	3,000
Trevor Testimonial Fund	...	2,400
Tripundeswar Mitra Medal Fund	...	3,600
Umeschandra Sarvamangala Prize Fund	...	500
Upendranath Mitra Scholarship Fund	...	1,200
Vidyasagar Memorial Fund	...	700
William Smith Memorial Fund	...	2,400
Woodrow Memorial Scholarship Fund	...	6,300
Woomeschandra Mukerjee Medal Fund	...	500
Lump Provision for the proposed Provident Fund Scheme (kept in Deposit	...	37,000
Kept in Short Deposit from the General Funds of the University	...	3,75,000
Kept in Fixed Deposit on Account of Sir P. C. Ray's gift to the Science College	...	6 1749

Report of the Syndicate

For the year 1927

Constitution of Senate, Syndicate, Faculties, and Boards of Studies.

SENATE.

CHANCELLOR.

His Excellency The Right Hon'ble Victor Alexander George Robert, Bulwer-Lytton, Earl of Lytton, M.A., P.C., G.C.I.E.

His Excellency Colonel the Right Hon'ble Sir Francis Stanley Jackson, P.C., G.C.I.E. (From 28th March, 1927.)

VICE-CHANCELLOR.

Jadunath Sarkar, Esq, C.I.E., M.A.

Ex-officio Fellows.

His Excellency the Governor of Assam.
The Chief Justice of the High Court of Judicature at Fort William in Bengal.
The Lord Bishop of Calcutta and Metropolitan of India.
The Member of the Council of the Governor-General in charge of the Department of Education.
The Member of the Ex.-Council of the Government of Bengal or the Minister appointed by the Governor to be in charge of the Department of Education.
The Minister for Education, Assam.
The Secretary to the Government of Bengal in the Department of Education.
The Director of Public Instruction, Bengal.
The Director of Public Instruction, Assam.
Principal, Presidency College, Calcutta.

COMMERCE.

		Rs.	A.	P.
1.	Mr. Rohinimohan Chaudhuri	50	0	0
2.	„ Jitendraprasad Niyogi (*on leave*) ...	50	0	0
3.	„ Harischandra Sinha	50	0	0
4.	„ R. C. Maulik (French)	100	0	0
5.	„ Sibnarain Lala (Hindi)	50	0	0
6.	„ Praphullachandra Ghose	50	0	0
7.	Dr. Dora Bowden (German)	100	0	0
8.	Mr. B. R. Rau	50	0	0
9.	„ Bijaykumar Sarkar	50	0	0
10.	Dr. N. M. Pal	200	0	0
11.	„ S. B. Datta	100	0	0
12.	Mr. S. R. Batliboi	50	0	0
13.	„ S. C. Ghosh	100	0	0

INSTRUCTORS.

1.	Mr. Nagendranath Chandra (French) ...	150	0	0
1.	Dr. P. De Braganza Cunha (Portuguese) ...	...		
1.	Mr. Karma Sumdhon Paul (Tibetan) ...	100	0	0
1.	Dr. Durgaprasanna Raychaudhuri ...	150	0	0

B.Sc.

1.	Mr. Manmathanath Banerjee	50	0	0
2.	„ Rabindramohan Bose	100	0	0
3.	„ Jnanendralal Bhaduri	75	0	0

Post-Graduate Teaching in Science.

Professors and Lecturers.

APPLIED MATHEMATICS.

Name.	Grade.	Salary on 31-12-27.
		Rs.
Prof. Nikhilranjan Sen	... Nil	750*
Mr. Jibanmohan Bose	... Do.	Nil
„ Bhupendrachandra Das	... Do.	Nil
„ Saradaprasanna Das	... Do.	Nil
Dr. Bibhutibhushan Datta	Rs. 200-25-500	450
„ Biteschandra Kar	... Nil	100
Mr. Bhupatimohan Sen	... Do.	Nil
Dr. Nripendranath Sen	Rs. 200-25-500	350
Mr. Hemchandra Sengupta	... Nil	Nil

PHYSICS.

Mr. Sushilkumar Acharyya	Rs. 200-25-500	400
„ Durgadas Banerjee	... Do.	275
„ Charuchandra Bhattacharyya	Nil	Nil

*Including House Allowance of Rs. 250.

Name.	Grade.	Salary on 31-12-27.
		Rs.
Prof. D. M. Rose ...	... Nil	750*
Dr. Brajendranath Chuckerburti	Rs. 200-25-500	400
,, Snehamay Dutta	... Nil	Nil
Mr. P. C. Mahalanabis‡	... Nil	Nil
,, Dwijendrakumar Majumdar	... Nil	Nil
Prof. Sisirkumar Mitra	... Nil	760†
Mr. Jogeschandra Mookerjee	Rs. 200-25-500	400
Prof. C. V. Raman	Rs. 800-50-1000	1,125‡
Dr. Bidhubhushan Ray	Rs. 200-25-500	350

APPLIED PHYSICS.

Prof. Phanindranath Ghosh	... Nil	750†
Mr. Purnachandra Mahanti	Rs. 150-15-300	350

CHEMISTRY.

Sir P. C. Ray	Rs. 800-50-1,000	1,000§
Mr. Birajmohan Das	... Nil	Nil
Dr. Satyaranjan Dasgupta	... Nil	Nil
Mr. Bidhubhushan Dutta	... Nil	Nil
,, Kalikumar Kumar	Rs. 150-15-300	210
,, Asutosh Maitra	... Nil	Nil
Prof. P. C. Mitter	... Nil	750†
Prof. Jnanendranath Mookerjee	... Nil	750†
Dr. Panchanan Neogi	... Nil	Nil
,, Jnanendranath Ray	Rs. 200-25-500	137-8 (L.A.)
Mr. Priyadaranjan Ray	Rs 200-25-500	400
,, Pulinbihari Sircar	Rs. 200-25-500	325
,, R. N. Sen	... Nil	Nil
Dr. Prafullakumar Bose	Nil	150

APPLIED CHEMISTRY.

		Rs. A. P.
Ray Bankimchandra Banerji	Rs. 200-25-500	225 0 0
Prof. H. K. Sen	... Nil	760 0 0†
Dr. Mahendranath Goswami	Rs. 200-25-500	275 0 0
,, Ramanimohan Pal (Draughtsman)	Nil	150

* On leave.
† Including House Allowance of Rs. 250.
‡ Including House Allowance of Rs. 125.
§ As desired by him his salary is being funded for furtherance of the Department of Chemistry of the University.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1927

CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Science

(*Special*)

FOR THE YEAR 1927

No. 2

THE 12TH FEBRUARY, 1927

Present :

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *in the Chair*.

Jnanchandra Ghosh, Esq., M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc.

The Faculty met to elect its Dean for the year 1927-28.

On the motion of Prof. Praphullachandra Mitter, seconded by Prof. Jnanendranath Mukherjee, Sir Praphullachandra Ray, Kt., was voted to the Chair.

Prof. Praphullachandra Mitter moved that Sir Praphullachandra Ray, Kt., be elected as the Dean of the Faculty for the year 1927-28.

Prof. Jnanendranath Mukherjee seconded the motion.

As there was no other candidate proposed for election, the Chairman declared Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., to be duly elected as the Dean of the Faculty for the year 1927-28.

(Confirmed.)

P. C. RAY,
Chairman.

J. C. GHOSH,
Registrar.

The University of Calcutta & Acharya P.C Ray 1906-1944

Chemistry.

Sir P. C. RAY has published several papers by himself and his collaborators in the *Journal of the Indian Chemical Society*.

Dr. H. K. SEN dealt with the fuel problem in his address as President of the Chemistry Section of the Indian Science Congress at Lahore.

Dr. P. C. MITTER has contributed learned papers and notes in co-operation with his colleagues and advanced pupils.

Dr. JNANENDRANATH MUKHERJI continued his researches in soil acidity, the value of which has been acknowledged by Prof. Zsigmondy in his *Colloid Chemistry* and also in several other standard works.

Dr. JNANENDRANATH RAY, after working on alkaloids under Prof. Robinson of Manchester, and Dr. MAHENDRANATH GOSWAMI, after studying catalysis under Prof. Sabatier of Toulouse, returned to our Science College last year and have started new lines of research here.

Zoology, &c.

Dr. BASANTAKUMAR DAS who joined the department of Zoology only in October last, has since then been engaged in equipping and reorganising the laboratory and guiding research. In England he completed a large monograph on certain air-breathing fishes of India, which will be published in the *Philosophical Transactions* of the Royal Society, and since his return he has been working on another branch of the same subject.

Drs. P. BRÜHL AND AGHARKAR have completed a number of learned papers on Indian Botany, some of which have been already published. They have also supervised the research work of their pupils.

Other members of Science department have contributed papers to various learned journals, and all have, in addition to conducting researches of their own, guided the work of the M.Sc. students, several of whom submit a piece of research in lieu of a written paper at their examination. The individual papers contributed to the Indian Journals of Chemistry, Mathematics, Physics, Natural History, etc., are too many to be enumerated here.

Geology.

Mr. HEMCHANDRA DASGUPTA has published several papers throwing light on various points of Indian pre-history and social practices.

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Faculty of Science

(*Special.*)

FOR THE YEAR 1927

No. 4

THE 9TH MARCH, 1927

Present:

Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Abodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Bahadur Jnanchandra Ghosh, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Jyotischandra Mitra, Esq., M.A., B.L.
Rev. Father E. Roeland, S.J.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.

The Faculty met to elect a representative on the Syndicate for the remaining period of the current session in place of Professor Praphullachandra Mitter, M.A., Ph.D., whose term of office as an Ordinary Fellow expired on the 13th February, 1927, and who had since been re-appointed an Ordinary Fellow and as such was eligible for re-election.

The undermentioned gentlemen were nominated for election:—

Name.	*Proposed by—*
1. Sir Nilratan Sircar, M.A., M.D., LL.D., D.C.L.	Prof. Praphullachandra Mitter, M.A., Ph.D.
1. *Prof. Praphullachandra Mitter, M.A., Ph.D.	A. Macdonald, Esq., M.A., B.Sc., A.M.I.E., (Ind.). D. E. Roberts, Esq., M.Sc.

* Prof. Praphullachandra Mitter, M.A., Ph.D., subsequently withdrew his candidature in a letter addressed to the Registrar.

As there was only one vacancy to be filled up, Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., who remained as the only candidate nominated, was declared by the Chairman to be duly elected as a representative of the Faculty on the Syndicate for the remaining period of the current session.

(Confirmed.)

P. C. RAY, *Dean.*

J. C. GHOSH, *Registrar.*

MINUTES OF THE FACULTY OF SCIENCE

FOR THE YEAR 1927

No. 7

THE 2ND APRIL, 1927

Present :

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.—*Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Jnanchandra Ghosh, Esq., M.A.
Rev. J. Watt, M.A., D.D.
Professor Prafullachandra Mitter, M.A., Ph.D.
Rev. A. F. Brown, C.I.E., M.A., B.Sc.
Professor C. V. Raman, M.A., D.Sc., F.R.S.
Professor Ganesh Prasad, M.A., D.Sc.
Professor Jnanendranath Mookerjee, D.Sc
Professor Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
Bibhutibhushan Datta, Esq., D.Sc.
Professor Hemendrakumar Sen, M.A., D.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Snehamay Datta, Esq., D.Sc.
Professor Sisirkumar Mitra, D.Sc.
Professor Nikhilranjan, Sen, Ph.D. D.Sc.

The Faculty met to consider a letter from Professor S. Radhakrishnan, M.A., Member of the Senate, giving notice of the following motion :—

That the following alterations be made in the Regulations, Chapter V

In Section 1, insert after the word " Faculties " "and Boards of Higher Studies in different subjects " and insert after the words " Faculty of Arts," " Boards of Higher Studies concerned in the Department of Arts," and insert after the words " Faculty of Science," " Boards of Higher Studies concerned in the Department of Science " and insert after the words " Faculties of Arts and Science," " Board of Higher Studies concerned in the Departments of Arts and Science."

(2) In Section 4, insert after the words " Faculty or Faculties " the words "and Boards of Higher Studies" and after " from among their own members (including Added Members)"

31

the words "and from the teachers in the affiliated Colleges of Calcutta and from the members of the Boards of Studies in the Departments of Arts and Science."

(3) In Section 5, sub-section (*b*) omit the words "not more.....Faculty" and insert the words "not more than 4 members at the same Faculty and not more than 4 members from the teachers in the subject from the affiliated Colleges in Calcutta."

(4) Add a sub-section, called (*e*) under Section 5, with the following words :

"The Board of Higher Studies concerned shall annually elect from its own members not more than 4 representatives on the Board of Studies."

[The matter was placed before the Senate on the 26th February, 1927, with the following observation of the Syndicate :—

"That the Senate be informed that, in the opinion of the Syndicate, it is desirable that the question should be considered in the first instance by the Faculties concerned."

The Senate has accordingly referred it to the Faculties.]

Mr. Hemchandra Dasgupta moved that the Faculty do express its approval of the proposal contained in the letter.

He said : Though I do not agree with these proposals in all respects I agree with the principles laid down here generally. There are two different types of Boards of Studies, the Boards of Studies and the Higher Boards of Studies. One defect of the present arrangement is the complete separation between Post-Graduate and Under-Graduate work. In many cases there is complete absence of co-ordination between Post-Graduate and Under-Graduate teaching and there is a large section of teachers of Post-Graduate teaching who do not think about Under-Graduate teaching. Another defect is that in the Boards of Studies teachers of Under-Graduate classes have practically no place. Take, for instance, the Board of Studies in Sanskrit. There are 12 members and among them there is only one man, Prof. Nilmani Chakravarti, who is engaged in Under-Graduate teaching. In the Board of Studies in Sanskrit & Languages consisting of 1 members there is no one who has anything to do with Under-Graduate Sanskritic work. In the Board of Studies in History with the exception of Professor Benoykumar Sen, there is no one who does Under-Graduate teaching. In the Board of Studies in Zoology, there is no Under-Graduate teacher. The case is similar with Mathema-

duct, inefficiency or gross neglect of duty if a recommendation to that effect is made by the Syndicate after a full enquiry into specific charges brought against him provided that at such enquiry the Professor shall be allowed adequate opportunity to defend himself.

A Professor shall vacate his offices upon completion of the sixtieth year of his age, unless upon the recommendation of the P. G. Council the Senate is satisfied that his services should, in the interest of research or teaching, be still retained by the University and in such an event the Senate may sanction his retention for such period as may be determined.

(*x*) The Professor shall be entitled to the benefit of the University Provident Fund so long as he is in service.

(*xi*) The post should be advertised every time a vacancy occurs.

In this connection Sir P. C. Ray, Kt , C.I.E., D.Sc., Ph.D., F.C.S., F.A.S.B., Member of the Senate, had given notice of the following amendments:—

1. That in rule (*iii*), after the words "after consulting the Professor," the following words be added:

"but the Professor shall have the right, in case of a difference of opinion, to refer the matter to the Senate whose decision will be final."

2. That in rule (*vii*), the words "Three experts" be substituted for the words "An expert" in clause 2 and that clauses 7 and 8 be deleted.

In this connection Prof. J. N. Mukherjee, D.Sc., Member of the Senate., had given notice of the following amendments:—

1. (*a*) That in rule (*iii*), at the end of the sentence concluding with the words "after consulting the Professor" the following words be added:

"subject to the proviso that in case of a difference of opinion the Professor may refer the matter to the Senate whose decision will be final."

(*b*) That in rule (*iii*),the sentence following the words "during the past year" be deleted.

2. That in rule (*iv*), the following words be added at the end "on condition analogous to those holding in the case of other Chairs."

3. That in rule (*vii*), the words "Three experts" be substituted for the words "An expert" in clause 2 and that clauses 7 and 8 be deleted.

(8) An expert in the subject nominated by the Executive Committee of the Council of Post-Graduate Teaching in Arts.

(9) An expert in the subject nominated by another University on the invitation of the Syndicate of the Calcutta University.

(*viii*) The Professor shall be a whole time officer of the University and shall not, without the special sanction of the Senate previously obtained, hold any other office to which any salary, emolumont or honorarium is attached.

(*ix*) A Professor may voluntarily resign his appointment at any time upon not less than six months' notice given by him in writing to the University. A Professor shall be liable to removal by the Senate on the ground of misconduct, inefficiency or gross neglect of duty if a recommendation to that effect is made by the Syndicate after a full enquiry into specific charges brought against him provided that at such enquiry the Professor shall be allowed adequate opportunity to defend himself.

A Professor shall vacate his office upon completion of the sixtieth year of his age, unless upon the recommendation of the Post-Graduate Council the Senate is satisfied that his services should, in the interest of research or teaching, be still retained by the University and in such an event the Senate may sanction his retention for such period as may be determined.

(*x*) The Professor shall be entitled to the benefit of the University Provident Fund so long as he is in service.

(*xi*) The post should be advertised every time a vacancy occurs.

In this connection Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.A.S.B., Member of the Senate, had given notice of the following amendments:—

(*a*) That in rule (iii) after the words "after consulting the Professor" the following words be added:

"but the Professor shall have the right in case of a difference of opinion to refer the matter to the Senate whose decision will be final."

2. That in rule (*viii*) the words. "Three experts" be substituted for the words "An expert" in clause 2 and that clauses 7 and 8 be deleted.

be still retained by the University and in such an event the Senate may sanction his retention for such period as may be determined.

(*x*) A Professor shall be entitled to the benefit of the University Provident Fund so long as he is in service.

(*xi*) The post should be advertised every time a vacancy occurs.

(*xii*) In the event of no person being found competent to enter on the full duties of the Chair immediately, the University may, in its discretion, select a proper person and require him to receive a special training either in India or abroad, before he enters upon the discharge of the duties of his office, and may give him during such period of training such allowance as may in such case be determined by the University out of the fund reserved for the Chair.

In this connection Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.A.S.B., Member of the Senate, had given notice of the following amendments :—

(1) That in rule (*iii*), after the words "after consulting the Professor" the following words be added :

"but the Professor shall have the right, in case of a difference of opinion, to refer the matter to the Senate whose decision will be final."

(2) That in rule (*vii*), the words "Three experts" be substituted for the words "An expert" in clause 2 and that clause 6 and 7 be deleted.

In this connection Prof. J. N. Mukherjee, D.Sc., Member of the Senate, had given notice of the following amendments :—

1. (*a*) That in rule (*iii*)' at the end of the sentence concluding with the words "after consulting the Professor" the following words be added :

"subject to the proviso that in case of a difference of opinion the Professor may refer the matter to the Senate whose decision will be final."

(*b*) That in rule (*iii*), the sentence following the words "during the past year" be deleted.

(2) That in rule (*iv*), the following words be added at the end "on conditions analogous to those holding in the case of other Chairs.

Minutes of the Faculty of Science

(*Special*)

FOR THE YEAR 1927.

No. 9.

THE 15TH DECEMBER, 1927.

Present :

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Rev. J. Watt, M.A., D.D.
Professor Prafullachandra Mitter, M.A., Ph.D.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. Father E. Roeland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.

The Faculty met to elect two representatives on the Syndicate for the year 1928-29.

(Of the two representatives, one at least was to be the head of, or Professor in, a College affiliated to this University.)

The undermentioned gentlemen had been nominated for election :

Names.	Proposed by—
1. H. E. Stapleton, Esq., M.A., B.Sc.	Rev. J. Watt, M.A., D.D.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.	Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.

3. Rai Bahadur Upendranath Brahmachari, M.A., M.D.,	Jyotishchandra Mitra, Esq., M.A., B.L.
4. Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.	Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
5. Prof. Praphallachandra Mitter, M.A., Ph.D.	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., PhD., F.C.S.

The Faculty first proceeded to elect one Representative who was either the Head of, or Professor in, a College affiliated to the University.

As the following candidates satisfied the above condition, a ballot was taken, and, on a scrutiny of the ballot papers, the votes recorded were found to be as given below :—

Names.	No. of votes
H. E. Stapleton, M.A., B.Sc.	11
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.	8

Mr. H. E. Stapleton, M.A., B.Sc., was accordingly declared to be duly elected.

The Faculty next proceeded to elect the second representative on the Syndicate.

The names of Sir Nilratan Sirear, Kt., M.A., M.D., LL.D., D.C.L. and Mr. Subodhchandra Mahalanobis. B.Sc., F.R.S.E., were, at their request, withdrawn from the list of candidates.

A ballot was, accordingly, taken among the remaining candidates, and the votes recorded were found to be as follows :—

Names.	No. of votes.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.	11
Prof. Praphullachandra Mitter, M.A., Ph.D.	8

Rai Upendranath Brahmachari, Bahadur, M.A., M.D. Ph.D., was accordingly declared to be duly elected as the second representative of the Faculty on the Syndicate.

The Dean thereupon declared the following gentlemen to be duly elected representatives of the Faculty on the Syndicate for the year 1928-29.

H. E. Stapleton, Esq., M.A., B.Sc.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

Minutes of the Faculty of Science

FOR THE YEAR 1927.

No. 10.

THE 15TH DECEMBER, 1927.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.,
Dean, in the Chair.

H. E. Stapleton, Esq., M.A., B.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Rev. J. Watt, M.A., D.D.
Prof. Praphullachandra Mitter, M. .. Ph.D.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
Rev.. A. E. Brown, C.I.E., M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. C. V. Raman, M.A., D.Sc., F.R.S
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Surendranath Maitra, Esq., M.A., B.A. (Cantab), A.R.C.S. (Lond.).
Rev. Father E. Roeland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Prof. Sisirkumar Mitra, D.Sc.

The Faculty met to elect a Member of the Faculty for appointment to the Committee of the Basanti Bijay School of Mining at Ikhra for the year 1928-29.

On the motion of Rai Chunilal Bose, Bahadur, seconded by Mr. Subodhchandra Mahalanobis, Prof. Praphullachandra Mitter, M.A., Ph.D., was unanimously elected as the representative of the Faculty on the Committee of Management of the Basanti Bijay University School of Mining at Ikhrah for the year 1928-29.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

what is necessary is not merely the imparting of knowledge to Under-Graduates. He has to help Graduates in advanced studies and to help them in research work. That is what Post-Graduate means. It does not mean preparing a course of lectures for the First-year and Second-year, and from his prepared notes dictate the same thing to different sets of boys. Every teacher of the Post-Graduate Department must be up-to-date. He must study himself. He must do original work himself. He must think, he must be an expert in that subject. Apropos of what Sir P. C. Ray said that you cannot get an expert for Rs. 200 a month, that is quite true, but according to our University Regulations there is the teaching profession to draw from. They are drawing pay as teachers in other colleges and Rs. 100 or Rs. 200 extra remuneration might draw some of them. Therefore that argument of Sir P. C. Ray does not hold good that you cannot get an expert on Rs. 200.

Sir Praphullachandra Ray: I said whole-time experts.

Mr. Brajendralal Mitter: Despite what Sir Devaprasad Sarvadhikary had said a practising lawyer can hardly find time to do other work, and for a Post-Graduate professor, you need time, you need leisure and you need scholarship. Mr. Van Manen had clearly pointed out that he was not making any reflection upon the capacity or scholarship of Mr. Banerjee. I make it quite clear that my opposition does not involve any reflection upon his capacity and his undoubted ability, but what I say is that it is impossible for a man like Mr. Banerjee with the work that he has in the High Court, after he devotes one and half hours to the Law College, to undertake also the Post-Graduate Lectureship. It is impossible for Mr. Banerjee to have time and leisure to be a competent teacher in the Post-Graduate Department. Mr. Radhakrishnan had said that Mr. Banerjee had proved himself a successful teacher in that Department. I do not deny that. But what we are confronted with is this: When a vacancy has now arisen, why should we not look around to see if we can get a man in the teaching profession, who can devote his time and his leisure to teaching in this Department and who can help students to advance their studies and research. For these reasons I oppose this motion.

Rev. A. E. Brown: Will you explain the word "practising"? Does it not depend upon the size of the practice?

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1928

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Khan Bahadur Maulvi Ahsanullah, M.A., M.R.A.S.
Aga Muhammad Kazim Shirazi.
Ramaprasad Mookerjee, Esq., M.A., B.L.
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Shams-ul-Ulama Hidayat Hussain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.
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Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
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Sivapada Bhattacharyya, Esq., M.D.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. P. G. Bridge, D.D.
Lt.-Col. Sir Frank Powell Connor, Kt., D.S.O., F.R.C.S.
Professor S. Radhakrishnan, M.A.
Sir Brajendralal Mitter, Kt., Barrister-at-Law.
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Professor Jnanendranath Mukherjee, D.Sc.
J. Chaudhuri, Esq., M.A., Barrister-at-Law.
Matiooh Ahmad Khan Chaudhuri, Esq., M.A.
The Hon'ble Mr. Justice Bipinbehari Ghosh, M.A., B.L.
Professor Sunitikumar Chatterjee, M.A., D.Lit. (Lond.).
Benoykumar Sen, Esq., M.A.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
Satischandra Ghosh, Esq., M.A.
Narendranath Law, Esq., M.A., Ph.D.
Saratchandra Bose, Esq., M.A., B.L., Barrister-at-Law, M.L.C.
Mrigendralal Mitra, Esq., L.M.S., F.R.C.S. (Edin.), M.D. (Brux.)
Major General Godfrey Tate, M.B., K.H.S., I.M.S., M.L.C.
Rev. G. Swan, M.A., Ph.D.
The Hon'ble Mr. Justice Leonard Wilfred James Costello, M.A., B.L., Barrister-at-Law.
Jatindramohan Ray, Esq., B.A., C.E. (Roorkee).

Phanibhusan Mookerjee, who graduated in Science from the London University and after his return to India joined the Education Department. He was appointed a Fellow of this University in 1904 and was on the Senate till 1914. He was a member of the Faculty of Science and was attached to the Boards of Studies in Chemistry, Botany, and Zoology. He joined the service of the Government in 1883, and after having served in the Rajshahi College, he acted as Principal of the Hooghly College and latterly as Inspector of Schools. Afterwards he retired from service and died ripe in age. I move that we convey to his bereaved family our condolence for the loss they have suffered, and I ask you to carry the motion standing.

The resolution was passed in solemn silence, all members present standing.

2. The Senate proceeded to elect *four representatives on the Syndicate* for the year 1928-29, two of whom at least should be either Heads of, or Professors in, Colleges affiliated to this University.

The undermentioned gentlemen had been proposed for election :—

Name	Proposed by
1. Prof. Herambachandra Maitra, M.A. (City College, Calcutta)	1. Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law 2. Benoykumar Sen, Esq., M.A.
2. Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D., M.L.C.	Prof. Pramathanath Banerjee, M.A., D.Sc., Barrister-at-Law, M.L.C.
3. Prof. Jnanranjan Banerjee, M.A., B.L. (Vidyasagar College, Calcutta.)	1. Sir Praphullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S. 2. Prof. S. Radhakrishnan, M.A.
4. Rev. Father F. X. Crohan, S.J. (St. Xavier's College, Calcutta.)	1. Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt. 2. Adityanath Mookerjee, Esq., M.A., Ph.D. 3. Rev. G. Ewan, M.A., Ph.D.
5. Manmathanath Ray, Esq., M.A., B.L., M.L.C. (University Law College, Calcutta.)	Satischandra Bagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.
6. Charuchandra Biswas, Esq., M.A., B.L.	Sir Brajendralal Mitter, Kt., Barrister-at-Law.
7. Khan Bahadur Maulvi Ahsanullah, M.A., M.B.A.S.	A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

The Senate first proceeded to elect two representatives on the Syndicate who were either Heads of, or Professors in, Colleges affiliated to this University. Mr. Manmathanath Roy, M.A., B.L., M.L.C., having withdrawn his name from the list of candidates, a ballot was taken among the remaining candidates who satisfied the above conditions and the votes recorded were found to be as follows:—

Name.	No. of votes.
Prof. Herambachandra Maitra, M.A.	69
Rev. Father F. X. Crohan, S.J.	53
Prof. Jnanranjan Banerjea, M.A., B.L.	27

Prof. Herambachandra Maitra and Rev. Father F. X. Crohan were accordingly declared to be duly elected as representatives of Senate on the Syndicate for the year 1928-29.

Sir Devaprasad Sarvadhikary, Prof. Jnanranjan Banerjea and Mr. Manmathanath Roy then withdrew their names from the list of candidates for the remaining two seats on the Syndicate.

Only two candidates being left for the remaining two seats, Mr. Charuchandra Biswas, M.A., B.L., and Khan Bahadur Maulvi Ahsanullah, M.A., M.R.A.S., were declared duly elected members of the Syndicate for the year 1928-29.

The following four Members were thereupon declared to be duly elected representatives of the Senate on the Syndicate for the year 1928-29:—

Prof. Herambachandra Maitra, M.A.
Rev. Father F. X. Crohan, S.J.
Charuchandra Biswas, Esq., M.A., B.L.
Khan Bahadur Maulvi Ahsanullah, M.A., M.R.A.S.

3. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine, and Engineering* for the year 1928-29.

[A list containing the names recommended by the Syndicate for election to the different Faculties, as also the additional names proposed by Fellows under Section 2, Chapter III of the Regulations, had been previously circulated.]

Messrs. Srikumar Banerjee and **Satishchandra Ghosh** acted as tellers in connection with the elections to the Faculty of Arts.

Mr. Johan Van Manen and **Dr. S. P. Bhattacharyya** acted as tellers in connection with the ballot regarding the Faculty of Science, and

Dr. Narendranath Law and **Capt. Haji Dabiruddin Ahmad** were appointed tellers in connection with the elections to the Faculty of Law.

After the names proposed for election had been voted on Faculty by Faculty, the Hon'ble the Vice-Chancellor declared that the Faculties of Arts, Science, Law, Medicine, and Engineering for the year 1928-29 had been constituted as follows:—

FACULTY OF ARTS.

E. F. Oaten, Esq., M.A., LL.B., M.L.C.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A.
Prof. Herambachandra Maitra, M.A.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D., M.L.C.
Rai Jnanchandra Ghosh Bahadur, M.A.
Prof. Dineschandra Sen, Rai Bahadur, B.A., D.Litt.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Jnanranjan Banerjea, Esq., M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Shams-ul-Ulama Kamaluddin Ahmed, M.A., M.R.A.S.
Rev. Father F. X. Crohan, S.J.
Prof. Hiralal Haldar, M.A., Ph.D.
Rev. G. Howells, M.A., Ph.D., B Litt., B.D.
Maulvi Muhammad Irfan, M.A.
S. Khuda Bukhsh, Esq., M.A., B.C.L., Bar.-at-Law
W. E. Griffith, Esq., M.A.
W. C. Wordsworth, Esq., M.A.
Rev. W. S. Urquhart, M.A., D.Litt.
Charuchandra Biswas, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
R. N. Gilchrist, Esq., M.A.
A. H. Harley, Esq., M.A.
Abdulla-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., Bar.-at-Law, M.L.A.
J. M. Bottomley, Esq., B.A.
Pramathanath Banerjee, Esq., M.A., B.L.
Khan Bahadur Maulvi Ahsanullah, M.A., M.R.A.S.
Aga Muhammad Kazim Shirazi.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Sir J. C. Coyajee, Kt., B.A., LL.B.
Shams-ul-Ulama Hidayet Hussain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.

Miss G. M. Wright.
Prof. Pramathanath Banerjea, M.A., D.Sc., Bar.-at-Law, M.L.C.
Johan Van Manen, Esq.
R. B. Ramsbotham, Esq., M.B.E., M.A., B.Litt.
Adityanath Mookerjee, Esq., M.A., Ph.D.
Khan Bahadur Tasadduq Ahmad, B.A.
Rev. P. G. Bridge, D.D.
J. W. Holme, Esq., M.A.
Prof. S. Radhakrishnan, M.A.
Jadunath Sarkar, Esq., C.I.E., M.A.
Srikumar Banerjee, Esq., M.A.
Matloob Ahmad Khan Chaudhuri, Esq., M.A.
Prof. Sunitikumar Chatterjee, M.A., D.Lit.
Binaykumar Sen, Esq., M.A.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
Satischandra Ghosh, Esq., M.A.
Narendranath Law, Esq., M.A., Ph.D.
Rev. George Ewan, M.A., Ph.D.

Mr. Ramaprasad Mookerjee: Will you please read out the votes recorded in favour of those members who have not been successful and also the total number of voting papers received ?

The Vice-Chancellor: Total number of papers received—82. The number of votes recorded against each of the remaining members is—

Sir P. C. Ray	...	46 votes.
Dr. S. C. Bagchi	...	51 ,,
Mr. Syamaprasad Mookerjee		48 ,,
Prof. Ganesh Prasad	...	42 ,,
Mr. Manmathanath Ray	...	41 ,,

Mr. Ramaprasad Mookerjee: According to the ruling given by you last year, Mr. Manmathanath Ray having received the votes of exactly half the members voting, is to be declared duly elected.

Mr. Binaykumar Sen: According to the Regulations, Mr. Ray is not entitled to be declared elected.

The Vice-Chancellor: Let me find out what happened last year, as I have no recollection of it.

The Registrar: Last year I had got exactly half the number of votes recorded and you declared me elected to the Faculty of Arts.

The Vice-Chancellor: I then declare Mr. Manmathanath Ray elected to the Faculty of Arts by my casting vote.

Mr. Charuchndra Biswas: I submit that this is against the Regulations.

The Vice-Chancellor: I shall look into the records of past years.

FACULTY OF SCIENCE.

H. E. Stapleton, Esq., M.A., B.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, Esq., M.A.
Rev. J. Watt, M.A., D.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.
D. Thomson, Esq., M.A., B.Sc., Ph.D
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.)
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotishchandra Mitra, Esq, M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. Father E. Roeland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).

Mr. Ramaprasad Mookerjee: Will you please in this case also inform the Senate of the number of votes recorded in favour of the successful candidates?

The Vice-Chancellor: Total number of voting papers received—81.

Dr. Kedarnath Das—43 votes recorded against.

Dr. Bidhanchandra Roy—44 votes recorded against.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

(Special)

FOR THE YEAR 1928.

No. 3.

THE 21ST MARCH, 1928.

Present:

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., *in the Chair.*

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Professor Praphullachandra Mitter, M.A., Ph.D.
Professor Ganesh Prasad, M. D.Sc.
Rev. Father E. Roeland, S.J.
Professor Jnanendranath Mukherjee, D.Sc.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Bibhutibhushan Datta, Esq., D.Sc.
Dwarkanath Mukhopadhyay, Esq., M.Sc.
Professor Hemendrakumar Sen, D.Sc.
Professor Nikhilranjan Sen, D.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst. P.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.
Nibaranchandra Bhattacharyya, Esq., M.A.
Professor Sisirkumar Mitra, D.Sc.

Mr. H. E. Stapleton, M.A., B.Sc., F.A.S.B., was, in the absence of the Dean, voted to the Chair.

The Faculty met to elect members of the Board of Studies for the year 1928-29 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The undermentioned gentlemen had been proposed for election to the different Boards of Studies under which their names appear :—

(10) Board of Studies in Chemistry

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
5. Rai Jnanchandra Ghosh, Bahadur, M.A.
6. Rev. J. Watt, M.A., D.D.
7. Professor Praphullachandra Mitter, M.A., Ph.D.
8. D. Thomson, Esq., M.A., B.Sc., Ph.D.
9. Rev. Father E. Roeland, S. J.
10. Professor Jnanendranath Mukherjee, D.Sc.
11. Dwarkanath Mukhopadhyay, Esq., M.Sc.
12. Professor Hemendrakumar Sen, M.A., D.Sc.
13. Susilkumar Acharyya, Esq., M.Sc.
14. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F. Inst. P.

(11) Board of Studies in Experimental and Mathematical Physics

1. Rai Jnanchandra Ghosh, Bahadur, M.A.
2. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
3. Professor C. V. Raman, M.A., D.Sc., F.R.S.
4. Rev. Father E. Roeland, S.J.
5. Professor Jnanendranath Mukherjee, D.Sc.
6. D. E. Roberts, Esq., M.Sc.
7. Professor Debendramohan Bose, M.A., B.Sc., Ph.D.
8. Bibhutibhushan Datta, Esq., D.Sc.
9. Dwarkanath Mukhopadhyay, Esq., M.Sc.
10. Professor Nikhilranjan Sen, Ph.D., D.Sc.
11. Susilkumar Acharyya, Esq., M.Sc.
12. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F. Inst. P.
13. Professor Sisirkumar Mitra, D.Sc.

The University of Calcutta & Acharya P.C.Ray 1906-1944

(19) Board of Studies in Teaching.

1. Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
2. Dwarkanath Mukhopadhyay, Esq., M.Sc.
3. Susilkumar Acharyya, Esq,, M.Sc.

A ballot was then taken among the candidates proposed for election to the Board of Studies in Chemistry and the following votes were found to have been recorded :—

	Names.	No. of votes.
1.	Rai Chunilal Bose, Bahadur	16
2.	Sir Praphullachandra Ray	16
3.	Rai Jnanchandra Ghosh, Bahadur ...	16
4.	Professor Praphullachandra Mitter ...	16
5.	Professor Hemendrakumar Sen	16
6.	Professor Jnanendranath Mukherjee ...	15
7.	Rai Upendranath Brahmachari, Bahadur ...	14
8.	D. Thomson, Esq.	14
9.	H. E. Stapleton, Esq.	13
10.	Professor Phanindranath Ghosh	12
11.	Rev. J. Watt	11
12.	Rev. Father E. Roeland	10
13.	Susilkumar Acharyya, Esq.	6
14.	Dwarkanath Mukhopadhyay, Esq. ...	5

The Chairman thereupon declared the following gentlemen to be duly elected to the Board of Studies in Chemistry for 1928-29 :—

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
5. Rai Jnanchandra Ghosh, Bahadur, M.A.
6. Rev. J. Watt, M.A., D.D.
7. Professor Praphullachandra Mitter, M.A., Ph.D.
8. D. Thomson, Esq., M.A., B.Sc., Ph.D.
9. Rev. Father E. Roeland, S.J.
10. Professor Jnanendranath Mukherjee, D.Sc.
11. Professor Hemendrakumar Sen, M.A., D.Sc.
12. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Minutes of the Faculty of Science

FOR THE YEAR, 1928.

No 5.

THE 26TH APRIL, 1928.

Present :

Sir Prafhullachandra Ray Kt., C.I.E., D.Sc., Ph.D., F.C.S.,
Dean, in the Chair.

Rai Upendranath Brahamachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Prafhullachandra Mitter, M.A., Ph.D.
Jyotishchandra Mitra, Esq., M.A., B.L.
Prof. Jnanendranath Mukherjee, D.Sc.

The faculty proceeded to elect a representative on the Syndicate for the remaining period of the current session in place of Mr. H. E. Stapleton, M.A., B.Sc., F.A.S.B., resigned.

The representative was to be either the Head of, or a Professor in, a College affiliated to this University.

The undermentioned gentlemen had been proposed for election :—

Name.	*Proposed by—*
1. Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.	Sir Nilratan Sircar, Kt., etc. / Prof. Prafhullachandra Mitter, M.A., Ph.D.
2. Rev. Father E. Roeland, S.J.	Jyotishchandra Mitter, Esq., M.A., B.L.

The name of Mr. Subodhchandra Mahalanobis was, at his request, withdrawn from the list of persons proposed for election.

Rev. Father E. Roeland being the only other candidate proposed for election, the Dean declared him to be duly elected a representative of the Faculty on the Syndicate in place of Mr. H. E. Stapleton, M.A., B.Sc., F.A.S.B., resigned.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

Minutes of the Faculty of Science

FOR THE YEAR 1928.

No 7.

THE 23RD JUNE, 1928.

Present :

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., D.Sc.
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotischandra Mitra, Esq., M.A. B.L.
Prof. Jnanendranath Mukherjee, D.Sc.
W. A. Jenkins, Esq., D.Sc.
Hemchandra Dasgupta, Esq., M.A., F.C.S.
Dwarkanath Mukhopadhyay, Esq., M Sc.
Sushilkumar Acharyya, Esq., M.Sc.
Phanindranath Ghosh, Esq., M.A., Ph.D., Sc.D.
Prof. Sisirkumar Mitra, D.Sc.

The Faculty met to consider a letter from the Secretary, Council of Post-Graduate Teaching in Science, forwarding the following resolution adopted by the Council of Post-Graduate Teaching in Science :—

"That this Council is of opinion that a Graduate in Science, working as a Research Assistant under a University Teacher for a period of three years after passing his Degree Examination, be given the privilege of appearing at the M.Sc. or M.A. Examination at the end of the said period, as a non-collegiate student, subject to the condition that the candidate satisfies the conditions laid down in Section IV of Chapter XVI of the Regulations and requests

Minutes of the Senate

FOR THE YEAR 1928.

No. 11.

THE 28TH JULY, 1928.

Present:

Jadunath Sarkar, Esq., C.I.E., M.A., *Vice-Chancellor, in the Chair.*

A. J. Dash, Esq., I.C.S., *Secretary to the Government of Bengal, Education Department.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., *Director of Public Instruction, Bengal.*

Prof. Herambachandra Maitra, M.A.

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., M.I.E. (Ind.).

Prof. Dineschandra Sen, Rai Bahadur, B.A., D.Litt.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Prof. Jnanranjan Banerjee, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Shams-ul-Ulama Kamaluddin Ahmed, M.A., M.R.A.S.

Prof. Hiralal Haldar, M.A. Ph.D.

Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.

Maulavi Muhammad Irfan, M.A.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.

W. C. Wordsworth, Esq., M.A.

Prof. W. S. Urquhart, M.A., D.Litt.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.C.

Charuchandra Biswas, Esq., M.A., B.L.

R. N. Gilchrist, Esq., M.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

A. H. Harley, Esq., M.A.

Abdulla-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.

Khan Bahadur Maulavi Ahsanullah, M.A., M.R.A.S.

Rev. A. E. Brown, C.I.E., M.A., B.Sc.

Sir J. C. Coyajee, Kt., B.A., LL.B.

Shams-ul-Ulama Dr. Hidayet Hosain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.

Pramathanath Nandi, Esq., M.D.

The Vice-Chancellor: That is not the question. The question is at what stage the amendment may be put. I rule that as notice has not been given of an amendment an amendment can only be moved with the special permission of the house and it must be worded in definite terms.

Professor S. Radhakrishnan's motion was then put to the vote in two parts and each part was carried *nem con.*

7(B) **Professor S. Radhakrishnan** moved that a sum of Rs. 2,250 be allotted in the Budget Estimates for 1928-29, as a supplementary grant, under the head Post-Graduate Teaching in Arts—Professors and Teachers, for payment to Mr. Kiranchandra Mookerjee and Dr. Girindrasekhar Bose for having worked for the period from 1st January, 1928 to the 31st May, 1928 in the Post-Graduate Department in Philosophy and Experimental Psychology, respectively.

He said :—Now that the first part of the resolution has been carried and these gentlemen have been appointed for 5 months it follows that we must have a supplementary grant of Rs. 2,250. Mr. Mitter raised the question about these being unauthorised appointments. I don't want to go into the past history of the whole question. If you turn to page 1 of this agenda you will find Mr. Das's appointment terminated on 12th December, 1927, and the Senate sanctioned his appointment on 28th June, this year. Why did not Mr. Mitter then raise an objection that the payment should take effect from that day and not from 1st January, 1928 ? I protest against those words " unauthorised employment."

Professor Ganesh Prasad seconded the motion which was carried, only one member dissenting.

The next item was as follows :—

8. A letter from **Sir Praphullachandra Ray**, Kt., C.I.E., M.A., D.Sc., Ph.D., F.C.S., *Member of the Senate*, giving notice of the following motion :—

That in pursuance to the recommendation of Re-organisation Committee the whole-time holders of endowed chairs under the Ghose and Khaira Trusts be placed on the grade Rs. 600-$\frac{50}{2}$-1,000 as is the case with all other University Professors and that necessary provision be made in the Budget for 1928-29.

69

In this connection the Board of Accounts made the following observations :—

" 1. That the Syndicate be informed that the Board regret that under the present financial condition it is not possible to consider the question of any increase in the salaries of the Professors.

" 2. That the Board suggest that the matter should be placed for consideration before the Committee which is bound to be appointed next year to consider the financial arrangement with Government and to review the financial state of the whole University."

In this connection the Syndicate passed the following resolutions :—

" That the resolutions of the Board of Accounts be confirmed and that Sir Praphullachandra Ray and the Boards of Management concerned be informed accordingly and that the matter be placed before the Senate."

Note.—The letter of Sir P. C. Ray was placed before the Senate on 5th May, 1928 (with the following resolution of the Syndicate thereon—" That the letter be placed before the Senate with the observation that the matter is under reference to the Board of Accounts ") when, on a motion from Mr. Charuchandra Biswas, consideration of the matter was adjourned pending receipt of the report of the Syndicate on the subject.

Sir Praphullachandra Ray moved the motion of which he had given notice.

He said : There should be no invidious distinction made in fixing the salaries of our Professors. The fact that some public spirited citizens have come forward to endow these chairs on an initial salary of Rs. 500 that should not be a bar to their getting increased emoluments. I think they should be given the same status as regards the pay, namely Rs. 600 to Rs. 1,000 and I hope the Senate will see its way to remove this inequality which to my mind looks almost invidious. The holders of these chairs are men of ditinguished European education and there is no reason why they should have a lower pay than other Professors.

Minutes of the Faculty of Science

FOR THE YEAR 1928.

(Special.)

No. 9.

THE 8TH DECEMBER, 1928.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Prafullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (London).
Rev. Father E. Rooland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
W. A. Jenkins, Esq., D.Sc.

The Faculty met to elect two representatives of the Faculty on the Syndicate for the year 1929-30.

Of the two representatives, one at least was to be either the Head of, or a Professor in, a College affiliated to this University.

The undermentioned gentlemen had been proposed for election :—

Name.	Proposed by.
1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.	Jyotischandra Mitra, Esq., M.A., B.L.

2.	Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.	Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3.	Prof. Praphullachandra Mitter, M.A., Ph.D.	Prof. C. V. Raman, M.A., D.Sc., F.R.S.
4.	Rev. Fr. E. Roeland, S.J.	1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
		2. Prof. Praphullachandra Mitter, M.A., Ph.D.
		3. Prof. Jnanendranath Mukherjee, D.Sc.

The Faculty first proceeded to elect one representative who was either the Head of, or a Professor, in a College affiliated to this University.

Of the gentlemen proposed for election, only the following satisfied the above condition :—

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rev. Fr. E. Roeland, S.J.

Prof. Subodhchandra Mahalanobis having, with the leave of the Faculty, withdrawn his name from the list of candidates proposed for election, the Dean declared Rev. Fr. E. Roeland, S.J., who was the only other candidate who satisfied the above condition, to be duly elected.

The Faculty then proceeded to elect the second representative of the Faculty on the Syndicate.

The name of Prof. Subodhchandra Mahalanobis having been, at his request, withdrawn from the list of candidates, a ballot was taken among the remaining candidates and the votes recorded were found to be as follows :—

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B. ... 11 votes.

Prof. Praphullachandra Mitter, M.A., Ph.D. ... ... 7 ,,

Rai Upendranath Brahmachari, Bahadur, was accordingly delared to be duly elected as the second representative of the Faculty on the Syndicate.

The Dean thereupon declared the following gentlemen to be duly elected as the representatives of the Faculty on the Syndicate for the year 1929-30 :—

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Rev. Fr. E. Roeland, S.J.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

Minutes of the Faculty of Science

FOR THE YEAR 1928.

No. 10.

THE 8TH DECEMBER, 1928.

Present:

Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Prafhullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotishchandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. Father E. Roeland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
W. A. Jenkins, Esq., D.Sc.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Dwarkanath Mukhopadhyay, Esq., M.Sc.
Prof. Hemendrakumar Sen, D.Sc.
„ Nikhilranjan Sen, D.Sc., Ph.D.
Susilkumar Acharyya, Esq., M.Sc.
Phanindranath Ghosh, Esq., M.A., Ph.D., Sc.D.
Prof. Sisirkumar Mitra, D.Sc.

1. The Faculty first proceeded to elect a representative of the Faculty on the Committee of Management of the Basanti-Bijay University School of Mines at Ikrah, for the session 1929-30.

Prof. Praphullachandra Mitter, M.A., Ph.D., was unanimously elected as the representative of the Faculty on the Committee of Management of the Basanti-Bijay University School of Mines at Ikrah for the session 1929-30.

2. Read a letter from Dr. M. P. West, M.A., D.Ph., regarding the inclusion of Biology as one of the optional subjects in the Matriculation Examination of this University.

Rai Chunilal Bose, Bahadur, moved that the proposal for the inclusion of Biology as one of the optional subjects for the Matriculation Examination of the University be adopted.

Prof. Praphullachandra Mitter seconded the motion.

Dr. W. A. Jenkins moved that a Committee consisting of seven members be appointed to consider the question as to what science subjects should be included in the list of subjects for the Matriculation Examination.

Prof. Ganesh Prasad seconded the motion.

Rai Chunilal Bose, Bahadur, accepted the motion of Dr. W. A. Jenkins, which was carried.

The following members were unanimously elected to the Committee :—

Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

,, Praphullachandra Mitter, M.A. Ph.D.

Rev. A. E. Brown, C.I.E., M.A., B.Sc.

Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.

W. A. Jenkins, Esq., D.Sc.

Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.

Prof. Praphullachandra Mitter was appointed convener of the Committee.

The next item was as follows :—

3. Read a letter from Professor Praphullachandra Mitter, M.A., Ph.D., Member of the Faculty, giving notice that he will move the following resolution :—

"That Elementary Physics and Chemistry be included in the list of optional subjects for the Matriculation Examination."

It was decided to refer the matter to the above-mentioned Committee.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

Philosophy.

Dr. Surendranath Dasgupta (Presidency College)—Published his Chicago lectures on *Hindu Mysticism* and a book on the Yoga Philosophy.

Ancient Indian History.

Dr. Upendranath Ghoshal (Presidency College)—Published his *Hindu Political Theories* and read a paper on Hindu Fiscal Terms before the Oriental Conference (Allahabad) and in collaboration with Dr. Nalinaksha Datta (of the University) made an English translation of Schiefner's German version of Taranath's History of Buddhism in India (Indian Historical Quarterly, 1927).

Anthropology.

Mr. Homchandra Dasgupta (Presidency College)—Compiled a bibliography of Indian Pre-history.

Economics and Commerce.

Mr. Akshaykumar Sarkar (Hughli College)—Published papers on—(1) Socio-economic revolution in rural Bengal during the Nineteenth Century, (2) Rural reconstruction in Bengal and (3) Indian Statistics.

WORK OF PROFESSORS IN THE POST-GRADUATE DEPARTMENT IN SCIENCE, 1927.

Mathematics—

Dr. Haridas Bagchi—Was engaged in researches on the Quaternions.

Prof. Syamadas Mookerjee—Has published two papers on—(1) the Oscillating Ellipses of a plane curve (Journal of Mathematics, Palermo, 1927) and (2) Triadic Equations in Hyperbolic Geometry (Bulletin of Mathematical Society, Calcutta, 1927).

Mr. Hariprasanna Banerjee—Has written a paper on the Proof of a Theorem of Fyer about indeterminancy limits of a divergent Legendre series (Bulletin, Calcutta Mathematical Society).

Applied Mathematics—

Dr. Siteschandra Kar—Has published two original papers related to Gravitational Theory of Einstein in Physikalische Zeitschrift, 1927.

Physics—

Prof. C. V. Raman, F.R.S., and the research students under him have published 41 original papers in various learned Journals of the West as well as in the Indian Journal of Physics. The researches comprise a variety of important problems of Physics, some of which relate to the formulation of new theories.

Prof. Sisirkumar Mitra—Is continuing his investigations on Atmospherics in co-operation with the Radio Research Board of England and has carried on researches on 'the visualising feats of high-frequency electric oscillations' in collaboration with Mr. Durgadas Banerjee.

Prof. Phanindranath Ghosh—Is engaged in a systematic study of the dielectric constants and absorption bands in various gases and vapours, of which the preliminary stage is expected to be completed soon.

Chemistry—

Sir P. C. Ray and his collaborators have published five original papers including two on valency of platinum in the Journal of the Indian Chemical Society. Further work in these lines is in progress.

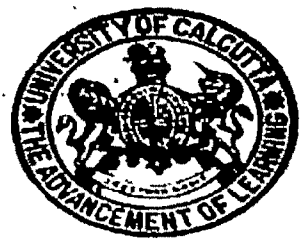
University of Calcutta

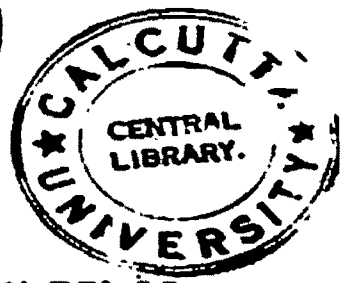
MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1929





CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Arts.

(Special.)

FOR THE YEAR 1929.

No. 1.

THE 5TH JANUARY, 1929.

Present:

Prof. Jnanranjan Banerjea, M.A., B.L., *Dean, in the Chair.*

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D., M.L.C.
Rai Juanchandra Ghosh, Bahadur, M.A.
Prof. Dineschandra Sen, Rai Bahadur, B.A., D.Litt.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Birajmohan Majumdar, Esq., M.A., B.L.
Shams-ul-Ulama Kamaluddin Ahmed, M.A., M.R.A.S.
Rev. Father F. X. Croban, S. J.
Prof. Hiralal Haldar, M.A., Ph.D.
Rev. G. Howells, M.A., Ph.D., B.Litt., B.D.
Maulavi Mohammad Irfan, M.A.
S. Khuda Bukhsh, Esq., M.A., B.C.L., Barrister-at-Law.
W. E. Griffith, Esq., M.A.
W. C. Wordsworth, Esq., M.A.
Prof. W. S. Urquhart, M.A., D.Litt.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Charuchandra Biswas, Esq., M.A., B.L.
Prof. D. R. Bhandarkar, M.A., Ph.D.
R. N. Gilchrist, Esq., M.A.
A. H. Harley, Esq., M.A.
Khan Bahadur Maulavi Ahsanullah, M.A., M.R.A.S.
Aga Muhammad Kazim Shirazi.
The Hon'ble Mr. Ramaprasad Mookerjee, M.A., B.L.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Sir J. C. Coyajee, Kt., B.A., LL.B.
Shams-ul-Ulama Hidayet Hussain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.
Rai Khagendranath Mitra, Bahadur, M.A.
Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law, M.L.C.
Johan Van Manen, Esq.
R. B. Ramsbotham, Esq., M.B.E., M.A., B.Litt.
Adityanath Mukherjee, Esq., M.A., Ph.D.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

in this matter, but as I have said, I am not going to allow it to depend upon my ruling, and I am placing it before the Senate and it is for the Senate to decide whether they will take it up or not.

Prof. Hiralal Haldar: I submit a ruling can only be asked when there is a dispute about it, but this is a clear case where no ruling can be asked for.

Prof. Herambachandra Maitra's motion to defer consideration of the matter to the next meeting was put to the vote and carried.

Mr. Johan Van Manen: I want to record my note of protest. Here we have done a thing which is illegal. So with great regret I have to give notice that I will move that this resolution should not have been allowed to be put to the meeting.

The Vice-Chancellor: May I ask what we have done?

Mr. Johan Van Manen: We have broken the law. We are not masters of the Regulations.

The Vice-Chancellor: We have decided not to admit it.

Mr. Johan Van Manen: We have taken it up without notice.

Prof. Jnanranjan Banerjea: Then you may call it an attempt to break the law and not breaking the law.

3. **Mr. Syamaprasad Mookerjee** moved that the gift of 3½ per cent. Government Promissory Note of the face value of Rs. 1,50,000, made by Srimati Sailasuta Debi, widow of the late Babu Radhikamohan Ray, in favour of the University, on the conditions laid down in her following letters, dated 26th July, 1928, addressed to the Vice-Chancellor, and dated 2nd December, 1928, addressed to the Registrar of the University, be accepted with thanks:—

FROM

SREEJUKTA SAILASUTA DEBI,

43, LANSDOWNE ROAD, BHOWANIPUR.

To

THE VICE-CHANCELLOR,

OF THE CALCUTTA UNIVERSITY, CALCUTTA.

DEAR SIR,

My revered husband the late **Babu Radhikamohan Ray** contemplated creating a trust of a permanent character

for the promotion and diffusion of Scientific and Technical education and the development of Applied Science and of Scientific Industry among the Bengalee Brahmins. Unfortunately however he departed from this world before the execution of the Trust Deed. To give effect to the said unfulfilled desire of my husband I had for some time past been contemplating the founding of a fund to be termed "The Radhikamohan Scholarship Fund" and of placing at the hands of the Calcutta University a substantial sum. With this view I have endorsed in your favour 3½ per cent. G. P. Note bearing No. 272924 of 1900-1 and of the face value of one lac and fifty thousand rupees towards the end of April, 1926. My gift to the University will be made on the following conditions :—

(1) That the said Scholarship shall be named 'Radhika-Mohan Educational Scholarship" in commemoration of my husband the late Babu Radhikamohan Ray.

(2) That such Scholarship will be available only to Bengalee Brahmin students of the qualifications hereinafter mentioned, who must have some previous training in Mechanical Engineering or in Chemical or some other technical industry existing in this country or in agriculture ; and who intend to go abroad for the purpose of acquiring further knowledge in such subject in England, Germany, Japan or other countries in Europe, Asia or America ; but who must not, while enjoying the Scholarship, study for the Civil Service, or Engineering, or Medicine, Law or any other profession alien to the purpose for which the Scholarship has been founded, with a view to practise as a Doctor or a Civil Engineer or to take up service under Government, provided that the study of the preparation or manufacture of drugs and medicines or of articles ordinarily manufactured in Engineering will not be included in the terms 'medicine and engineering' stated above. It will be regarded as an additional qualification but not necessary one if the candidate be a Graduate in Science of the Calcutta or Dacca or any other University or a Diploma Holder of the National Council of Education, Bengal.

(3) That no candidate shall be selected on any account unless he has the following qualifications :—

(a) That he is a Bengalee Brahmin. Other qualifications being equal, preference will be given to a Barendra Brahmin.

The University of Calcutta & Acharya P.C Ray 1906-1944

(*b*) That he is of such circumstances that he or his guardians cannot bear the cost of his further education.

(*c*) That the age of the candidate is not less than 20 or more than 30 completed years.

(*d*) That he possesses good health and moral character.

(4) That once every year or once every two years as the funds permit the Governing Body hereinafter mentioned will proceed to make a selection from among the candidates of the qualifications specified in Clauses (2) and (3) and to award a Scholarship to him as mentioned in Clause (6) for prosecuting his advanced studies abroad with a view to following an industrial profession : provided always that it shall be within the powers of the Governing Body to select candidates with the required qualifications and award Scholarship to them for advanced training in the aforesaid subjects at some industrial centre in India if the object of founding the Scholarship will be better served thereby instead of sending such candidates abroad.

(5) That the selected candidates shall have to make an Affidavit in such terms as may be required by the Governing Body from time to time to suit the occasion.

(6) That the selected candidate will be paid his passage (II Class) and a sum of Rs. 1,500 before he starts from India on furnishing an Affidavit referred to in Clause (5), and a further sum of Rs. 1,500 in the same year in monthly instalments as may be necessary and a third sum of Rs. 2,000 the next year also in monthly instalments as may be necessary on the Governing Body being furnished with proof of the candidate's satisfactory progress in study during the first year. On completion of his study the Governing Body will pay his return passage (II Class).

(7) That in case the place of study is chosen in India the Scholarship will be suitably reduced and will not exceed half of the amount specified in Clause (6) and the Governing Body can at their discretion increase the number of selected candidates in any year or years to utilise the saving.

(8) That the Governing Body will keep themselves in touch with the student on return after completion of his

study and assist him in being apprenticed to any factory or Industrial concern if he so desires with a view to his acquiring experience of Indian conditions of the particular industry in which he has specialised. And when he desires to start an industrial business himself the Governing Body may at their discretion pay him a sum not exceeding Rs. 1,000 by way of a small capital on such terms as they think fit and proper.

(9) That in case the income of the G. P. note shall exceed the amount required to meet all the expenses aforesaid or in case no suitable candidate be found in any year and the surplus accumulates to such an extent that more than one candidate may be trained on the above terms and conditions, the Governing Body will, if practicable, send two or more such candidates in place of one to study abroad or at some selected place in India or continue the Scholarship of any selected student for a third year.

(10) That the Calcutta University shall pay the above amount and also meet such incidental expenses for the purpose of carrying out their duties as Trustees as may be necessary, out of the income of the said G. P. note and shall publish the names of the selected scholars with the subjects and places of study in the University Calendar.

(11) That the University acting as Trustees will forthwith deposit the said G. P. note in safe custody with the Imperial Bank of India, Calcutta, and will open an account in the name of the above fund to be termed "**Radhikamohan Scholarship Fund**" and will also realise the interest of the said G. P. Note for credit in the account of the aforesaid fund.

(12) That the said University shall not be able to withdraw the G. P. note from the said Imperial Bank of India except in the event of the Bank being wound up. In case the Government pays off the particular loan the said University will in that event authorise the Bank to realise the money and invest the same immediately in other sorts of G. P. notes as may be decided by the said University, and on such investment such G. P. notes will form a part of the said Fund and Clause (11) for safe custody will apply to such other sorts of G. P. notes.

(13) That the Governing Body who will administer the Scholarship must be six in number as hereinafter

The University of Calcutta & Acharya P C.Ray 1906-1944

constituted. They will meet from time to time whenever convened by the said University and they will not be entitled to charge any remuneration, gratification or expenses of any kind for their work in connection with this Scholarship. In the event of a difference of opinion among the members of the Governing Body the votes of the majority will prevail, the Chairman having a casting vote in case of a tie. Once every year the said University shall place before the Governing Body an annual account of the Fund for their information and approval.

(14) The Governing Body referred to above will be constituted as follows:—

(*i*) Vice-Chancellor of the Calcutta University (*ex-officio*, Chairman).

(*ii*) Director of Industries, Government of Bengal.

(*iii*) A member or officer of an Industrial concern in Bengal, being a Bengali, to be selected by the Syndicate of the Calcutta University in consultation with the head of the concern for a term of three years, intermediate vacancies under this head being filled by the Syndicate.

(*iv*) Sir P. C. Ray, Kt., 92, Upper Circular Road, Calcutta.

(*v*) Srijut Jatindramohan Ray, 49, Lansdowne Road, Calcutta.

(*vi*) Srijut Khirodmohan Goswami, Memari, Burdwan.

(*iv*), (*v*) and (*vi*) are to be members for three years and vacancies under (*iv*), (*v*) and (*vi*) to be filled by me or my legal successor or successors. In the event of there being two or more successors, who are not unanimous in choosing their nominee or nominees the Syndicate of the Calcutta University shall fill up the vacancy or vacancies by selection from among the nominees of each successor.

This is my scheme and I solicit the favour of your kindly moving the Senate of the Calcutta University for the acceptance of my gift on the conditions mentioned above.

43, LANSDOWNE ROAD,
BHOWANIPUR, CALCUTTA.
The 26th July, 1928.

Yours faithfully,

SAILABUTA DEBI.

8

No. $\frac{II}{245}$.

43, LANSDOWNE ROAD, BHOWANIPUR,
CALCUTTA.
2nd December, 1928.

FROM
Sj. SAILASUTA DEBI,
ZAMINDAR,

To
THE REGISTRAR,
CALCUTTA UNIVERSITY,
CALCUTTA.

DEAR SIR,

Referring to your letter No. A/350, dated the 1st September, 1928, I agree to add the following as the last clause of the conditions for creating the Radhikamohan Scholarship Fund: "The Proceedings of the Governing Body shall be subject to confirmation by the Syndicate of the Calcutta University."

Yours faithfully,
SAILASUTA DEBI.

He said: This matter was before the Senate twice during the last few months. You may remember that the last time that the Senate was considering the question of the acceptance of this gift, some questions of importance were raised by certain members of the Senate as regards the desirability of accepting the gift at all. I think the trend of the opinion of the Senate was that in the circumstances it was prudent that University should accept the gift and the principal condition which was criticised in the Senate on that day was with regard to the class of persons who would be eligible for these scholarships, *viz.*, a Hindu Brahmin who was also a Barendra by sect. The matter was however referred back to the Syndicate not in regard to the advisability of accepting the gift on these grounds, but for the purpose of modifying the terms of the endowment, so as to make the Proceedings of the Committee of Management of

the Endowment subject to confirmation by some important body in the University. The lady was written to and she has agreed that the Proceedings of the Managing Committee should be subject to confirmation by the Syndicate. So, it is practically now. an endowment under the control of the University. I do not think this will be debated upon or opposed at all.

Rai Chunilal Bose, Bahadur: It gives me great pleasure to second this motion.

The motion was put to the vote and carried unanimously.

5. **Rev. Fr. E. Roeland** moved that in Chapters XXXV and XXXVI of the Regulations, the existing Syllabuses in Physics (pp. 228-231 and pp. 245-249 of the Regulations, edition of 1927) be replaced by the following Syllabuses, recommended by the Faculty of Science :—

I.Sc. EXAMINATION.

PHYSICS.

Theoretical.

The course in Physics shall be mainly experimental. Candidates will be expected to show general acquaintance with the apparatus by which elementary principles of Physics are illustrated and applied.

General Ideas—

Units of measurement—Length, Mass, Time-Motion, Velocity, Acceleration, Momentum, Force. Moment of a force and couple. Work and Energy.

Laws of Motion.

Translatory motion, circular motion, and simple harmonic motion.

Laws of pendulum.

General properties of solids, liquids and gases. Specific gravity.

Elasticity—Hook's Law. Young's modulus. Hydrostatic pressure and its measurement. Equilibrium of floating bodies.

Dalton's Law. Boyle's Law.

Syphon. Lift Pump. Hydraulic Press.

Minutes of the Senate

FOR THE YEAR 1929.

No. 2.

THE 26TH JANUARY, 1929.

Present:

Professor W. S. Urquhart, M.A., D.Litt., *Vice-Chancellor, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
R. B. Ramsbotham, Esq., M.B.E., M.A., B.Litt.
Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Prof. Herambachandra Maitra, M.A.
Sir Devaprasad Sarvadhikary, *Sastiratna, Vidyaratnakar*, Kt., C.I.E., C.B.E., M.A., LL.D., M.L.C.
Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.
Kedarnath Das, Esq., C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Subodhchandra Mahalanobis, Esq., B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Satischandra Sagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.
Prof. Dineschandra Sen, Rai Bahadur, B.A., D.Litt.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Prof. Jnanranjan Banerjea, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Shams-ul-Ulama Kamaluddin Ahmed, M.A., M.R.A.S.
Rev. Father F. X. Crohan, S.J.
Prof. Hiralal Haldar, M.A., Ph.D.
Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.
W. E. Griffith, Esq., M.A.
Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.
W. C. Wordsworth, Esq., M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.C.
Charuchandra Biswas, Esq., M.A., B.L.
B. N. Gilchrist, Esq., M.A.
Prof. D. R. Bhandarkar, M.A., Ph.D.
A. H. Harley, Esq., M.A.
Abdulla-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.

D. Thomson, Esq., M.A., B.Sc., Ph.D.
Khan Bahadur Maulvi Ahsanullah, M.A., M.R.A.S.
Aga Muhammad Kazim Shirazi.
The Hon'ble Mr. Ramaprasad Mookerjee, M.A., B.L.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Sir J. C. Coyajee, Kt., B.A., LL.B.
Shams-ul-Ulama Dr. Hidayet Husain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.
Rai Khagendranath Mitra, Bahadur, M.A.
Prabhatnath Banerjee, Esq., M.A. (Cantab.), A.M.I.E. (Ind.).
Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law, M.L.C.
Johan Van Manen, Esq.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Prof. C. V. Raman, M.A., D.Sc., F.R.S.
Jyotishchandra Mitra, Esq., M.A., B.L.
Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law.
Adityanath Mookerjee, Esq., M.A., Ph.D.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Captain Haji Dabiruddin Ahmad, K.I.H., L.M.S., B.M.S., A.I.R.O.
Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
Abul Kasim Fazl-ul-Haq, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Rai Pramodchandra Datta, Bahadur, B.L.
R. Wolfendon, Esq., M.B.E., M.Sc., M.I.Mech E. M.I.E. (Ind.), Barrister-at-Law.
Sivapada Bhattacharyya, Esq., M.D.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. P. G. Bridge, D.D.
J. W. Holme, Esq., M.A.
Lt.-Col. Sir Frank Powell Connor, Kt., D.S.O., F.R.C.S.
Prof. S. Radhakrishnan, M.A., D.Litt.
Rev. Father E. Roeland, S.J.
Jadunath Sarkar, Esq., C.I.E., M.A.
Srikumar Banerjee, Esq., M.A.
Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.
Prof. Jnanendranath Mukherjee, D.Sc.
J. Chaudhuri, Esq., M.A., Barrister-at-Law,
The Hon'ble Mr. Justice Bipinbihari Ghose, M.A., B.L.
D. E. Roberts, Esq., M.Sc.
Prof. Sunitikumar Chatterji, M.A., D.Lit. (London).
Binaykumar Sen, Esq., M.A.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.
Satischandra Ghosh, Esq., M.A.
Narendranath Law, Esq., M.A., Ph.D.
Saratchandra Bose, Esq., M.A., B.L., Barrister-at-Law, M.L.C.
Mrigendralal Mitra, Esq., L.M.S., F.R.C.S. (Edin.), M.D. (Brux.).
Jatindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
Maulvi Munawar Ali, B.A., LL.B. (Aligarh), M.L.C.
Khan Bahadur Azizul-Haque, B.L., M.L.C.
W. A. Jenkins, Esq., D.Sc.
Rev. Allan Cameron, M.A., B.D.
Rabindranarayan Ghosh, Esq., M.A.
M. N. Bose, Esq., M.B.C.M.

29. Rev. A. E. Brown, C.I.E., M.A., B.Sc.
30. Sir J. C. Coyajee, Kt., B.A., LL.B.
31. Shams-ul-Ulama Hidayet Husain, Khan Bahadur, Ph.D., F.A.S.B., M.R.A.S.
32. Miss G. M. Wright.
33. Rai Khagendranath Mitra, Bahadur, M.A.
34. Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law, M.L.C.
35. Johan Van Manen, Esq.
36. Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law.
37. Adityanath Mookerjee, Esq., M.A., Ph.D.
38. Khan Bahadur Tasadduq Ahmad, B.A., B T., M.Ed.
39. Prof. Ganesh Prasad, M.A., D.Sc.
40. Rev. P. G. Bridge, D.D.
41. J. W. Holme, Esq., M.A.
42. Prof. S. Radhakrishnan, M.A., D.Litt.
43. Jadunath Sarkar, Esq., C.I.E., M.A.
44. Srikumar Banerjee, Esq., M.A.
45. Matloob Ahmad Khan Chaudhuri, Esq., M.A.
46. Prof. Sunitikumar Chatterji, M.A., D.Lit. (Lond.)
47. Binoykumar Sen, Esq., M.A.
48. A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
49. Satischandra Ghosh, Esq., M.A.
50. Narendranath Law, Esq., M.A., Ph.D.
51. Khan Bahadur Aziz-ul-Haque, B.L., M.L.C.
52. Rev. Allan Cameron, M.A., B.D.
53. Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.)., Ph.D. (Cantab.).
54. Rabindranarayan Ghosh, Esq., M.A.

FACULTY OF SCIENCE.

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
4. Kedarnath Das, Esq., C.I.E., M.D.
5. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
6. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
7. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D F.C.S.
8. Rai Jnanchandra Ghosh, Bahadur, M.A.
9. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.
10. Prof. Praphullachandra Mitter, M.A., Ph.D.
11. D. Thomson, Esq., M.A., B.Sc., Ph.D.
12. Rev. A. E. Brown, C.I.E., M.A., B.Sc.
13. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

14. Prof. C. V. Raman, M.A., D.Sc., F.R.S.
15. Jyotishchandra Mitra, Esq., M.A., B.L.
16. Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
17. Prof. Ganesh Prasad, M.A., D.Sc.
18. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
19. Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
20. Rev. Father E. Roeland, S.J.
21. Prof. Jnanendranath Mukherjee, D.Sc.
22. D. E. Roberts, Esq., M.Sc.
23. Prof. Debendramohan Bose, M.A., B.Sc., Ph.D (Berlin).
24. W. A. Jenkins, Esq., D.Sc.

***

Minutes of the Faculty of Science

FOR THE YEAR 1929.

No. 1.

THE 2ND FEBRUARY, 1929.

Present:

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., *in the Chair.*

Rai Jnanchandra Ghosh, Bahadur, M.A.	**Prof. C. V. Raman, M.A., D.Sc., F.R.S.**
Prof. Prafullachandra Mitter, M.A., Ph.D.	**Prof. Jnanendranath Mukherjee, D.Sc.**
Rev. A. E. Brown, C.I.E., M.A., B.Sc.	

The Faculty met to elect its Dean for the year 1929-30.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., was voted to the Chair.

On the motion of Prof. Jnanendranath Mukherjee, D.Sc., seconded by Prof. Praphullachandra Mitter, M.A., Ph.D., Sir Praphullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S., was unanimously elected Dean of the Faculty for the year 1929-30.

(Confirmed.)

NILRATAN SIRCAR, *Chairman.* **J. C. GHOSH,** *Registrar.*

Minutes of the Faculty of Science

FOR THE YEAR 1929.

(Special)

THE 25TH FEBRUARY, 1929.

No. 2.

Present :

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A. B.Sc., F.A.S.B.
Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
Kedarnath Das, Esq., C.I.E., M.D.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Ganesh Prasad, M.A., D.Sc.
Prof. Jnanendranath Mukherjee, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
W. A. Jenkins, Esq., D.Sc.

The Faculty met to elect Added Members for the year 1929-30.

Until the Dean arrived Mr. H. E. Stapleton acted as the Chairman of the meeting on a motion from Rai Chunilal Bose, Bahadur, which was seconded by Professor Ganesh Prasad.

The following were the names and statement of qualifications of the persons proposed for election :—

	Name.	*Proposed by—*
1.	Acharyya, Mr. Sushilkumar, M.Sc.	Rai Chunilal Bose, Bahadur, C.I.E., I.S.O., M.B., F.C.S.

Statement of Qualifications.

M.Sc., 1912 (First Class ; Silver Medallist) ; Lecturer-Demonstrator in Physics at the Presidency College, 1912-14; Professor of Physics, City College, Calcutta, 1914-16; Lecturer in Physics, Calcutta University since 1916 ; Added Member of the Faculty of Science for 1927 and 1928.

2. Banerjee, Mr. Surendrachandra, M.A., B.Sc., F.L.S. — Rai Jnanchandra Ghosh, Bahadur, M.A.

Statement of Qualifications.

Professor of Botany, Presidency College ; has served in the Faculty as an Added Member for many years and has done excellent work.

3. Bhattacharyya, Mr. N. C., M.A., B.Sc. — Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Statement of Qualifications.

Senior Professor of Physiology, Presidency College ; has been elected an Added Member of the Faculty for many years in succession and has rendered valuable service on the Boards of Studies in Biological Sciences.

4. Dasgupta, Mr. Hemchandra, M.A., F.G.S. — Rai Bahadur Dr. Upendranath Brahmachari, M.A., M.D., Ph.D.

Statement of Qualifications.

M.A. in Geology ; Professor of Geology, Presidency College, Calcutta; Lecturer in Geology, Calcutta University ; Chairman of the Higher Board of Studies in Geology and of the Board of Studies in Geology ; Member of the Faculty of Science, Benares University ; contributor of a number of scientific papers to the Journal of the Asiatic Society of Bengal and several other journals; was an Added Member of the Faculty of Science for several years.

5. Datta, Dr. Sneharnay, D.Sc. — W. A. Jenkins, Esq., D.Sc.

Statement of Qualifications.

Professor of Physics, Presidency College; has published several pieces of research work in Spectroscopy and is a Doctor of Science of the University of London; a successful teacher and an Examiner in Dacca University as well as Calcutta University.

6. Ganguly, Mr. Phanindra-lal, M.A. — Jyotischandra Mitra, Esq., M.A. B.L.

Statement of Qualifications.

M.A. in Mathematics, 1900 (Gold Medallist); Premchand Roychand Student in Mathematics, 1904; University Lecturer in Mathematics since 1911; Ordinary Fellow of the University from 1910 to 1915.

7. Mahalanobis, Mr. P.C., B.A. (Cantab.). — Professor Debendramohan Bose, M.A., B.Sc., Ph.D.

Statement of Qualifications.

Senior Professor of Physics, Presidency College.

8. Mitra, Dr. Sisirkumar, D.Sc. — Professor Jnanendranath Mukherjee, D.Sc.

Statement of Qualifications.

D.Sc. (Paris); Khaira Professor of Physics in this University; has long been associated as a teacher and Examiner in this University; author of many papers on Optics and Wireless Telegraphy and allied subjects.

9. Mukhopadhyay, Mr. Dwarka-nath, M.Sc. — Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S.

Statement of Qualifications.

A double M.Sc. of the Calcutta University; Professor of about 17 years' standing and an elected member of the Governing Body, Vidyasagar College; an Examiner of the Calcutta University in Physics at the B.Sc. Examination; has proved very efficient as organiser of the Physics

Department of his College of which he is in charge and as one of the organisers of the 'Sbramajibi Shiksha Parishat' of which he is the Honorary Secretary ; his activities in other public bodies, *e.g.*, Bangiya Sahitya Parishat, All-Bengal College and University Teachers' Association, etc., are well known. He served in the Faculty of Science of the Calcutta University as an Added Member in the session 1928-29.

10. Sen, Dr. Hemendra-kumar, M.A., D.Sc. — Professor Praphullachandra Mitter, M.A., Ph.D.

Statement of Qualifications.

M.A. (Cal.), D.Sc. (London), Premchand Roychand Scholar, Sir Rashbehary Ghose Professor of Applied Chemistry; author of numerous original contributions; has been Added Member for many years.

11. Sen, Professor Nikhil-ranjan, D.Sc. (Cal.), Ph.D. (Berlin). — Sir Praphullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S.

Statement of Qualifications.

D.Sc., (Cal.); Ph.D. (Berlin); Sir Rashbehary Ghose Professor of Applied Mathematics; was Added Member in 1927 and 1928; author of numerous original papers.

12. Sen, Dr. Nripendranath, D.Sc. — Professor Ganesh Prasad, M.A., D.Sc.

Statement of Qualifications.

M.Sc. (Gold Medallist, 1918), P.R.S. (1922), D.Sc, (1923), Mouat Medallist (1926); Examiner and Paper-setter in the Universities of Calcutta, Dacca and Benares; Post-Graduate Lecturer in Applied Mathematics in the Calcutta University since 1921; author of fifteen original research papers published in and outside India; a distinguished mathematician and a keen researcher.

28

A ballot was taken among the candidates proposed for election and on a scrutiny of the ballot papers the following votes were found to have been recorded :—

	Name.	*No. of Votes.*
1.	Mr. Susilkumar Acharyya ...	... 6
2.	,, Surendrachandra Banerjee ...	... 8
3.	,, N. C. Bhattacharyya ...	... 9
4.	,, Hemchandra Dasgupta ...	... 9
5.	Dr. Snehamay Datta ...	... 7
6.	Mr. Phanindralal Ganguly ...	... 2
7.	,, P. C. Mahalanobis ...	... 6
8.	Prof. Sisirkumar Mitra ...	... 6
9.	Mr. Dwarkanath Mukhopadhyay ...	... 4
10.	Prof. Hemendrakumar Sen ...	... 7
11.	,, Nikhilranjan Sen ...	... 6
12.	Dr. Nripendranath Sen ...	... 4

On a scrutiny of the ballot papers the following gentlemen, each of whom secured votes of the majority of the members present at the meeting and voting were declared duly elected as Added Members for 1929-30 :—

1. Mr. N. C. Bhattacharyya, M.A., B.Sc.
2. ,, Hemchandra Dasgupta, M.A., F.G.S.
3. ,, Surendrachandra Banerjee, M.A., B.Sc., F.I.S.
4. Dr. Snehamay Datta, D.Sc.
5. ,, Hemendrakumar Sen, M.A., D.Sc.
6. Mr. Susilkumar Acharyya, M.Sc.
7. ,, P. C. Mahalanobis, B.A. (Cantab.).
8. Prof. Sisirkumar Mitra, D.Sc.
9. ,, Nikhilranjan Sen, D.Sc. (Cal.), Ph.D. (Berlin).

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1929.

No. 3.

THE 19TH MARCH, 1929.

(Special.)

Present:

Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S., *in the Chair.*

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Ganesh Prasad, M.A., D.Sc.
R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
Nibaranchandra Bhattacharyya, Esq., M.A., B.Sc.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Snehamay Datta, Esq., D.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Prasantachandra Mahalanobis, Esq., B.A. (Cantab.).
Prof. Sisirkumar Mitra, D.Sc.

In the absence of the Dean, Rai Chunilal Bose, Bahadur, was voted to the Chair.

The Faculty proceeded to elect members of the Board of Studies for the year 1929-30 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The under-mentioned gentlemen had been proposed for election to the different Boards of Studies under which their names appear :—

10. Board of Studies in Chemistry.

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O. F.C.S.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
5. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
6. Rai Jnanchandra Ghosh, Bahadur, M.A.
7. Professor Praphullachandra Mitter; M.A., Ph.D.
8. D. Thomson, Esq., M.A., B.Sc., Ph.D.
9. Rev. A. E. Brown, C.I.E., M.A., B.Sc.
10. Rev. Father E. Roeland, S.J.
11. Professor Jnanendranath Mukherjee, D.Sc.
12. Snehamay Datta, Esq., D.Sc.
13. Professor Hemendrakumar Sen, M.A., D.Sc.

11. Board of Studies in Experimental and Mathematical Physics.

1. Rai Jnanchandra Ghosh, Bahadur, M.A.
2. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
3. D. Thomson, Esq., M.A., B.Sc., Ph.D.
4. Professor C. V. Raman, M.A., D.Sc., F.R.S.
5. Professor Ganesh Prased, M.A., D.Sc.
6. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
7. Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
8. Rev. Father E. Roeland, S.J.
9. Professor Debendramohan Bose, M.A., B.Sc., Ph.D.
10. W. A. Jenkins, Esq., D.Sc.
11. Snehamay Datta, Esq., D.Sc.
12. Susilkumar Acharyya, Esq., M.Sc.
13. Prasantachandra Mahalanobis, Esq., B.A. (Cantab.).
14. Professor Sisirkumar Mitra, D.Sc.

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19. Board of Studies in Teaching.

1. W. A. Jenkins, Esq., D.Sc.
2. Professor Hemendrakumar Sen, M.A., D.Sc.
3. Sushilkumar Acharyya, Esq., M.Sc.

A ballot was then taken among the candidates proposed for election to the Board of Studies in Chemistry and the following votes were found to have been recorded :—

1. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S. 10

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Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B. 10
3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc. Ph.D., F.C.S. 10
4. Rai Jnanchandra Ghosh, Bahadur, M.A. 10
5. Professor Prafullachandra Mitter, M.A., Ph.D. 10
6. Professor Jnanendranath Mukherjee, D.Sc. 10
7. Professor Hemendrakumar Sen, M.A., D.Sc. 10
8. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B. 9
9. D. Thomson, Esq., M.A., B.Sc., Ph.D. ... 9
10. Rev. Father E. Roeland, S.J. 9
11. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L. 8
12. Rev. A. E. Brown, C.I.E., M.A., B.Sc. ... 6
13. Snehamay Datta, Esq., D.Sc. 6

On a scrutiny of the votes, it was found that Rev. A. E. Brown and Dr. Snehamay Datta had obtained equal number of votes. The Chairman thereupon gave directions for a fresh ballot between the two candidates with the following result :—

Dr. Snehamay Datta	...	10 votes.
Rev. A. E. Brown	...	3 ,,

The Chairman thereupon declared the following gentlemen to be duly elected to the Board of Studies in Chemistry for 1929-30 :—

10. Board of Studies in Chemistry.

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph. D., F.A.S.B.
5. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
6. Rai Jnanchandra Ghosh, Bahadur, M.A.
7. Professor Praphullachandra Mitter, M.A., Ph.D.
8. D. Thomson, Esq., M.A., B.Sc., Ph.D.
9. Rev. Father E. Roeland, S.J.

10. Professor Jnanendranath Mukherjee, D.Sc.
11. Snehamay Datta, Esq., D.Sc.
12. Professor Hemendrakumar Sen. M.A., D.Sc.

A ballot was taken among the remaining candidates proposed for election in the Board of Studies in Experimental and Mathematical Physics and the following votes were found to have been recorded :—

1. Rai Jnanchandra Ghosh, Bahadur, M.A.	11
2. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).	11
3. Professor C. V. Raman, M.A., D.Sc., F.R.S.	11
4. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.	11
5. Rev. Father E. Roeland, S.J.	11
6. Professor Debendramohan Bose, M.A., B.Sc., Ph.D.	11
7. W. A. Jenkins, Esq., D.Sc.	10
8. Susilkumar Acharyya, Esq., M.Sc. ...	11
9. Prasantachandra Mahalanobis, Esq., B.A. (Cantab.).	11
10. Professor Sisirkumar Mitra, D.Sc. ...	11
11. Snehamay Datta, Esq., D.Sc.	10
12. Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).	9
13. D. Thomson, Esq., M.A., B.Sc., Ph.D.	1

The Chairman thereupon declared the following gentlemen to be duly elected to the Board of Studies in Experimental and Mathematical Physics for 1929-30 :—

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Minutes of the Senate

FOR THE YEAR 1929.

No. 16.

THE 24TH AUGUST, 1929.

(Special)

Present:

Prof. W. S. Urquhart, M.A., D.Litt., *Vice-Chancellor, in the Chair.*

Ex-Officio-Fellows.

The Hon'ble Mr. A. Hamid, B.L., Minister of Education, Assam.

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C., *Director of Public Instruction, Bengal.*

Ordinary Fellows.

Prof. Herambachandra Maitra, M.A.
Sir Devaprasad Sarvadhikary, Suriratna, Vidyaratnakar, Kt., C.I.E., C.B.E., M.A., LL.D.
Kedarnath Das, Esq., C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Jasoranjan Banerjea, M.A., B.L.
Shams-ul-Ulama Kamaluddin Ahmed, M.A.
Rev. G. Howells, M.A., B.Litt., B.D., Ph.D.
W. B. Griffith, Esq., M.A.
Prof. D. R. Bhandarkar, M.A., Ph.D.
A. H. Harley, Esq., M.A.
Aga Muhammad Kazim Shirazi.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Shams-ul-Ulama Dr. Hidayet Hosain, Khan Bahadur, Ph.D., F.A.S.B.
Rai Khagendranath Mitra, Bahadur, M.A.
Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law, M.L.C.
Johan Van Manen, Esq.
Adityanath Mookerjee, Esq., M.A., Ph.D.
Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
Prof. Ganesh Prasad, M.A., D.Sc.
R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E.(Ind.), Barrister-at-Law.

The University of Calcutta & Acharya P.C.Ray 1906-1944

He said: As Dr. N. N. Sengupta has taken leave, and we unanimously recommended that in his place Dr. Girindrasekhar Bose should be appointed a part-time Lecturer, we thought we should utilise his services for this purpose. He was getting Rs. 250 for part-time work and in view of his additional responsibility on account of his being in charge of the department we recommend that he should draw a salary of Rs. 300. So we are actually saving Rs. 400 in connection with this particular appointment.

Prof. Praphullachandra Mitter seconded the motion which was carried.

9. **Mr. Syamaprasad Mookerjee** moved that the fund created out of the accumulated salary of Sir Praphullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S., be utilised in the way outlined in the following scheme: —

(1) Rs. 5,000 (five thousand only) to be spent for the extension of the Inorganic Chemistry Laboratory of the University College of Science.

(2) Rs. 10,000 (ten thousand only) to be spent for the equipment of an Inorganic Research Laboratory at the University College of Science specially for the investigation of Rare Earths and for Micro-analysis.

(3) Rs. 10,000 (ten thousand only) to be paid to the Indian Chemical Society as a contribution towards its *Building Fund*.

(4) The rest to be funded and out of the interest a Research Fellowship in Chemistry of the value of Rs. 200 (two hundred only) per mensem to be constituted as soon as possible on the following terms and conditions, provided that the number of Fellowship be raised to two if and when the Funds accumulate to such an extent as to permit such a procedure :—

(*i*) The Fellow should ordinarily be either Premchand Roychand Student or holder of the Doctor's degree and he must have already furnished positive proofs of his capacity for research by some *strikingly original* work.

(*ii*) The Fellow must be a whole-time worker and must not be in receipt of any salary or emolument for serving in any other capacity. No award should be made unless candidates fulfilling the above condi-

tions be forthcoming and any savings on this score should be added to the corpus of the fund.

(*iii*) The University shall from its own funds make such recurring and periodical grants or contributions as it may consider necessary, such grants or contributions to be ordinarily not less than Rs. 750 and not more than Rs. 1,000 for each Fellow for each year, in order to enable the Fellow to carry on his researches.

(*iv*) The Fellowship will be renewable every year up to a maximum of five years.

(*v*) A Committee, constituted as follows, will award and renew Fellowships:

(*a*) The Vice-Chancellor.
(*b*) The Palit Professor of Chemistry.
(*c*) The Ghose Professor of Pure Chemistry.
(*d*) The Ghose Professor of Applied Chemistry.
(*e*) The Khaira Professor of Chemistry.
(*f*) The Senior Professor of Chemistry, Dacca University.
(*g*) One nominee or derived nominee of the Donor.

In moving he said: It will be recalled that in 1922 when Sir Praphullachandra Ray had attained his 60th year, he was to retire from the University, but the Senate thought it would be a calamity to lose his services even though he might have attained that age, and at the special request of the Senate he agreed to continue in the services of the University, but on this condition, namely, that he would not accept any salary and that the amount of Rs. 1,000 a month which was the salary fixed for this Chair, should be accumulated for a purpose to be determined later on. He held the appointment for five years and after the lapse of five years he was re-appointed for another term. The Fund which has thus already accumulated amounts to Rs. 90,000 and the scheme which has been prepared by the Syndicate has the approval of Sir Praphullachandra Ray. I have no doubt the Senate will approve the scheme which now comes up before you for confirmation.

Prof. Praphullachandra Mitter said: In seconding I wish to draw attention to one or two striking features in the endowment. Our University has in the past been indebted to the generosity of various donors but this is

he first time when a poor man like Sir Praphullachandra Ray has made such a big endowment.

Prof. Hiralal Haldar having obtained leave moved as an amendment that the words " strikingly " in 4 (1) be omitted. He said there was no reason for putting " strikingly " before " original. " If it was original that would be sufficient. He thought " strikingly " original work was done once in a century.

Prof. Jnanendranath Mukherjee seconded the amendment.

The Hon'ble Mr. Ramaprasad Mookerjee: On a point of order. When Sir Praphullachandra Ray agreed to work for the University without drawing any kind of allowance he made the condition which appears in the University Calendar at page 128. I do not know whether it was to be the Governing Body of the Palit Trust or the Governing Body of the Science College by whom the scheme is to be approved. If it be the Governing Body of the Palit Trust the whole scheme as well as the amendment have to be placed before the Palit Trust. It is not for the Senate to make any alterations in the scheme as suggested by Sir Praphullachandra Ray.

Mr. Syamaprasad Mookerjee: I would point out that one of the conditions is that the University will from its own funds make certain provisions. So it is not competent for the Palit Governing Body to pass resolutions. It is for the Senate to arrive at a decision.

The Hon'ble Mr. Ramaprasad Mookerjee: It should be placed before the Palit Governing Body before it can be placed before the Senate.

The Registrar: There is the letter from Sir Praphullachandra Ray. It is his wish to place it before the Senate.

Mr. Pramathanath Banerjee: Is it necessary to have those words " strikingly original " in italics ?

The Vice-Chancellor : If you are intending to move a second amendment you are out of order.

Mr. Pramathanath Banerjee: I am only making an enquiry from the Chair as to why those words are in italics.

The Registrar: They were underlined by some one who was responsible for sending that letter to the University.

Prof. Ganesh Prasad: I must join issue with my friend Dr. Haldar. Ordinarily the word "original" is used but we also use "very original," "strikingly original," "quite original," "exceptionally original." Sir Praphullachandra Ray is one of the greatest scientists of India and a man of great experience in the matter of guiding research work. In the interests of the University and for the proper use of his endowment it should be made very clear to every possible candidate that the word "original" is intended to mean what it should, namely, really original. Therefore the addition of the adverb should not create any inconvenience to any one. I don't want to say more than that. I fear that the purpose for which this endowment is being created and the objects of Sir Praphullachandra Ray will not be served otherwise. If we have five candidates for the Sir Praphullachandra Ray Scholarship in five different branches of Chemistry and award each of them one-fifth, then each of these gentlemen will get only Rs. 40 per month. That is undesireable. We want to prevent undesirable men from becoming candidates. Therefore the word "strikingly" is harmless there. I maintain that no useful purpose will be served by removing it.

Mr. Charuchandra Biswas: If you refer to the letter of Sir Praphullachandra Ray you will find that he did not contemplate that the words ought to be limited or as a matter of course to establish a very high standard when he founded the scholarship. No award shall be made unless they fulfil the above conditions. We have no right to depreciate the standard by leaving out such essential words as we have here.

Mr. Syamaprasad Mookerjee: We have had a most interesting debate, I should say a strikingly original debate, on a very small matter. Dr. Haldar says that it is not possible for every research student to do something as strikingly original as Sir P. C. Ray or Sir C.V. Raman, but it is for the student to strive to do so. I oppose the amendment as wholly unnecessary.

The amendment was put to vote and negatived.

Mr. Jyotishchandra Mitra: I am sorry I have to propose an amendment to clause 4 (*iii*), where it says "such grants or contributions to be ordinarily not less than Rs. 750 and not more than Rs. 1,000." Why should the University

88

commit itself to any definite sum. My amendment is that these figures should be left out. I move this amendment on behalf of the Board of Accounts. All these figures should go out and we should not fix any amount. I ask for leave to move the omission of the words from "such grants" to "for each year."

Leave having been given, he moved the amendment formally.

He said: A grant to each Fellow is to be given subject to the requirements of the Fellow and after considering the resources of the University. You need not do that now, because we have to provide funds for carrying out the researches. When we accept the endowment we have to provide the money, but I would not commit the University to any definite sum. I am prepared to grant Rs. 1,000 or even another sum of Rs. 500, but it all depends upon the research work. I take it that some one will advise us as to what special sums we want for the purpose of research and the amount so recommended will be included in our estimates provided our resources permit. I do not want to commit the University to any sum. I fully recognise that the University should make the necessary contribution to enable the Fellow to carry on his researches.

Dr. W. A. Jenkins: I second this and in doing so I wish to draw the attention of the Senate to the gloriously indecisive nature of the wording in paragraph *(iii)*. It means precisely what meaning you wish to put into it. In the first place it says that the University shall make such grants as it may consider necessary and then it says "Ordinarily it should not be less than Rs. 750." Presumably the word ordinarily applies even to the Rs. 1,000, but this is not certain from the language. I am not certain whether Rs. 1,000 is a maximum beyond which you cannot go. The question is whether "ordinarily" applies also to the Rs. 1,000. As it is worded it means anything. It is not even a guide to the Senate as to the wishes of the donor. I would put before the Senate that it is desirable to approach this question not from the point of view of the money the University ought to give in comparison to what the donor has given, but from the point of view of what is necessary for the particular holder in view of the research work that he is doing. There may be years in which he may require

only Rs. 250 and in that case why give him Rs. 750? At the same time there may be years in which he may require more than Rs. 5,000, in which case why prevent the fruition of his labours by not giving it to him? Therefore the amendment that is moved by Mr. Mitra deserves the attention of every member of the Senate. This, I think, if explained, would be approved of by the generous donor of the gift. It means that in accordance with the circumstances and in accordance with the needs of the Fellows, the University will as far as possible provide facilities for carrying on research. There may be years when it will practically require nothing, in other words when he is able to carry on his research with the apparatus in the laboratory and chemicals in stock. There may be other years when he might wish to purchase expensive apparatus or chemicals. Therefore I second Mr. Mitra's amendment that the University shall consider in all its bearings the application as regards the needs of a Fellow for his particular work and that it should grant it as far as it can in accordance with its resources.

Mr. Pramathanath Banerjee: It seems to me strikingly original that such a modest grant by the University as Rs. 750 a year should be objected to. My friend Mr. Mitra not unfrequently has qualms of finance. I understand that what he says is that in some years the University may pay the Fellow Rs 1,000 and more and in some years the University may not be in a position to pay even Rs. 750. I realise and appreciate that point of view. Dr. Jenkins says that the wording of the paragraph is ingloriously indecisive, but when in his speech he referred to the amount being dependent upon contingencies in accordance with the expenditure and needs of the Fellows, I think his suggestion is ingloriously indecisive. Sir Praphullachandra Ray's contribution to the domain of science and his great sacrifices in the cause of education particularly in this University need no reiteration from me. They are perfectly well known to the members of the Senate. Now what is the University offering him? Not less than Rs. 750 and not more than Rs. 1,000 for each Fellow for each year for the purpose of the carrying on of the research work by the Fellow. I have not heard a proposition like this that the needs of the Fellows should be met in accordance with the circumstances of the University. If the University is in a position to buy

The University of Calcutta & Acharya P.C.Ray 1906-1944

more appliances it will buy them, but this is the minimum that the University will be called upon to pay. From every point of view this is a definite statement which the Senate ought to accept. If notwithstanding the services of Sir Praphullachandra Ray and his remarkable generosity, you think you are not in a position to accept the gift, reject it, but you cannot amend it and you cannot make it ingloriously indecisive.

Mr. Charuchandra Biswas: If again you refer to the papers circulared to the Members of the Senate *re*: the scheme you will find that at p. 3, Sir Praphullachandra Ray wanted that the University should pay Rs. 1,000 per annum to each Fellow. That was the fixed amount that he was asking for. What the Syndicate did was to refer the matter to the Board of Accounts for their opinion. What the Board said was this that in the opinion of the Board the condition regarding the Rs. 1,000 should be modified in the following manner, that is to say, to take out all reference to any amount. Then the matter came back to the Syndicate and the Syndicate thought that they could not accept the Board's opinion and the Syndicate decided to put a limit. The maximum was to be Rs. 1,000 for each Fellow. Sir P. C. Ray had suggested Rs. 1,000. The matter was then referred to Sir P. C. Ray for his opinion and he said he would prefer that it should be worded like this, not less than Rs. 750, the minimum to be laid down below which the grant was not to be reduced. What the Syndicate did was to retain both the minimum and the maximum. I do not think there ought to be any objection to accepting it in the form that was adopted by the Syndicate, as Mr. Banerjee has said this does not prevent the University in any year from giving a larger amount and it only requires we must not make the minimum Rs. 500. As regards Dr. Jenkins' meticulous comment, probably the word "ordinarily" should be placed before the words "such grants." In that case there would have been no occasion for that remark.

Mr. Binaykumar Sen: After listenning to Dr. Jenkins' speech and the discussion that had followed, we have seen the different points of view from which the indefinite character of the grant could be looked at. The Syndicate had tried to arrive at the greatest common measure of definiteness that was possible under the circumstances. We have got to remember the resources of the University

on the one hand and on the other, we have to consider the needs of the research workers. It is a desirable condition that every year the research worker will be able to get Rs. 750 at least and Rs. 1,000 at the most, if the University can pay it. I think this is the most sensible and most definite arrangement that can be arrived at.

Prof. Praphullachandra Mitter: In opposing Mr. Jyotishchandra Mitra's amendment I would point out the great danger of leaving this clause absolutely vague. Grants are given to Professors and Lecturers and they have an opportunity of placing their requirements before the Syndicate. The department of the Research Fellows will not be a department of the University and they will not have any opportunity of representing their requirements. That is why Sir Praphullachandra Ray has fixed the lowest limit beyond which the grant should not go, namely, Rs. 750. He felt that Rs. 1,000 might be necessary but if the contingency arose that the University has not the funds, Rs. 750 is the minimum which should be assured to any research Fellow taking up research work. The clause as it stands with the word " ordinarily " also provides for the contingency that in some years the University may not have even Rs. 750 to spare and they have to give a smaller sum. That I think will be done in very exceptional circumstances and the fact that Sir Praphullachandra Ray has donated about Rs. 90,000 for this purpose, will not be lost sight of.

Rev. Dr. G. Howells: I do not think that Mr. Mitra's amendment is at all necessary. At present by the use of the word " ordinarily " it is sufficienly indefinite for anything. The University is not committet to paying even a single pice by the word " ordinarily." It might drop the payment now and again if the University is in danger of becoming bankrupt as it was on one occasion. The word " ordinarily " makes it wholly unnecessary to add anything else. That, to my mind, is itself gloriously indefinite. Personally I would prefer that nothing should be said here. If I was in a position to give anything to the University, I would be inclined to give it without any condition. While we very much appreciate splendid gifts of this kind, specially in view of the circumstances under which this particular gift has been given, if we get many

The University of Calcutta & Acharya P.C.Ray 1906-1944

gifts of this character with such conditions attached to them,. there may be an embarrassment of riches which might make the University itself bankrupt.

Mr. Syamaprasad Mookerjee: My objection against the amendment is that it is in itself of a strikingly gloriously indecisive nature. May I read the clause as it now stands: "The University shall from its own funds make such recurring and periodical grants or contributions as it may consider necessary."

Rev. Dr. G. Howells: May consider anything or may consider nothing.

Mr. Syamaprasad Mookerjee: We should have "ordinarily" in both places. The anxiety was that if the research Fellow wanted more than Rs. 1,000, how is the University going to grant it? That, I think, will be protected by putting in the word "ordinarily" also before Rs. 1,000.

Mr. Jyotishchandra Mitra's amendment that the figures be omitted was put to the vote and negatived.

At the suggestion of **Prof. Herambachandra Maitra**, the following verbal alterations were made in the last line of rules (*iii*), *viz.*, that the words "for the..... Fellow" were replaced by the words "in order to enable the Fellow to carry on his researches."

The Hon'ble Mr. Ramaprasad Mookerjee: I think this Fellowship should be named the Sir Praphullachandra Ray Fellowship. He did not make it a condition but I think it ought to be made a condition.

Prof. Praphullachandra Mitter seconded the proposal.

Mr. Jyotishchandra Mitra: I object to the scheme itself. It has been made out that as Sir Praphullachandra Ray has formulated the details of the scheme it should be accepted intact and no other body is competent to alter that. Unfortunately if we accept that position we will stultify the position that we had taken up in connection with the salary of Sir Praphullachandra Ray. The Accountant General of Bengal objected to the non-payment of Income Tax on the Rs. 1,000 which is debitable to the Palit Trust and the matter had to be taken up with the Income Tax Commissioner. We pointed out the letter from Sir Praphullachandra Ray that he will not take any salary and that his salary is to

be utilised for the furtherance of research work in Chemistry, or any other subject which may be fixed by the Vice-Chancellor. We pointed out to the Income Tax Commissioner that Sir Praphullachandra Ray has nothing to do with it and that we only make adjustments. No payment is made. The President of the Board of Accounts referred to other similar cases. We forwarded the letter and said that it has nothing to do with the salary and that the money is entirely at our disposal. They said that the income tax should be paid but as the Accountant General is not an authority we had to carry on further correspondence with the Income Tax Commissioner. We sent him a copy of Sir Praphullachandra Ray's letter in justification of the position we took up and we said that it was only a question of account adjustment, transfer from one account to the other but no payment to anybody.

Mr. Pramathanath Banerjee: Are we discussing Income Tax matters?

The Vice-Chancellor: He is in order. He is leading up to the idea that we are not bound to accept Sir Praphullachandra Ray's proposal.

Mr. Jyotishchandra Mitra: I say that it should be referred back so that the Governing Body and Vice-Chancellor should decide whether the money should be spent in this way. The proposal must emanate from the Vice-Chancellor and the Governing Body and not under the terms of Sir Praphullachandra Ray's letter. In view of the fact that we have got exemption from Income Tax we should consider it as if it was our own money. The whole scheme must be formulated by the Vice-Chancellor and the Governing Body quite irrespective of what Sir Praphullachandra Ray might say. They might consult his wishes, but the whole thing must emanate from the Vice-Chancellor and the Governing Body.

He then moved that the matter be referred back.

The motion to refer the matter back having found no seconder fell through.

Mr. Syamaprasad Mookerjee: Although this motion to refer the matter back has fallen through because it has found no seconder, I think, I ought to say something on some of the points that Mr. Mitra has raised. His has

The University of Calcutta & Acharya P C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR 1929.

(Special.)

No. 7.

THE 13TH DECEMBER, 1929.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Professor Sobodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Bidhanchandra Ray, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), M.L.C.

Professor Prafullachandra Mitter, M.A., Ph.D.

D. Thomson, Esq., M.A., B.Sc., Ph.D.

A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

Jyotishchandra Mitra, Esq., M.A., B.L.

Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.

R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.

Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).

Rev. Father E. Roeland, S.J.

Professor Jnanendranath Mukherjee, D.Sc.

D. E. Roberts, Esq., M.Sc.

Professor Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).

W. A. Jenkins, Esq., D.Sc., M.L.C.

The Faculty met to elect two representatives on the Syndicate for the year 1930-31.

Minutes of the Faculty of Science

FOR THE YEAR 1929.

(Special.)

No. 7.

THE 13TH DECEMBER, 1929.

Present:

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.

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Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

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Rev. Father E. Rooland, S.J.

Professor Jnanendranath Mukherjee, D.Sc.

D. E. Roberts, Esq., M.Sc.

Professor Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).

W. A. Jenkins, Esq., D.Sc., M.L.C.

The Faculty met to elect two representatives on the Syndicate for the year 1930-31.

Of the two representatives, one at least was to be either the Head of, or Professor in, a College affiliated to this University.

The names of the following gentlemen had been proposed for election :—

Names proposed.	Proposed by.—
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.	1. Jyotishchandra Mitra, Esq., M.A., B.L. 2. Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S. 3. Rev. Father E. Roeland, S.J.
Rev. Father E. Roeland, S.J.	Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Professor Debendramohan Bose, M.A., B.Sc., Ph.D.	Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

The Faculty first proceeded to elect one representative who was either the Head of, or a Professor in, a College affiliated to the University.

Rev. Father E. Roeland, S.J., being the only candidate who satisfied the above condition was declared to be duly elected.

The Faculty then proceeded to elect the second representative of the Faculty on the Syndicate.

A ballot was taken among the remaining two candidates and the votes recorded were found to be as follows :—

	Votes.
(1) Rai Upendranath Brahmachari, Bahadur	14
(2) Professor Debendramohan Bose (two votes were rejected).	4

Rai Upendranath Brahmachari, Bahadur, was accordingly declared to be duly elected.

The Dean thereupon declared the undermentioned gentlemen to be duly elected as the representatives of the Faculty on the Syndicate for the year 1930-31 :—

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Rev. Father E. Roeland, S.J.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

***

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science

FOR THE YEAR, 1929.

No. 8.

THE 13TH DECEMBER, 1929.

Present:

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *Dean, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Kedarnath Das, Esq., C.I.E., M.D.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.). F.R.C.S. (Eng.), M.L.C.
Professor Praphullachandra Mitter, M.A., Ph.D.
D. Thomson, Esq., M.A., B.Sc., Ph.D.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Jyotishchandra Mitra, Esq., M.A., B.L.,|Lt.-Col. A. D. Stewart,|M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
R. Wolfenden, Esq., M B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
Rev. Father E. Rooland, S.J.
Professor Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.
Professor Debendramohan Bose, M.A., B.Sc., (Lond.), Ph.D. (Berlin).
W. A. Jenkins, Esq., D.Sc., M.L.C.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Susilkumar Acharyya, Esq., M.Sc.
Professor Sisirkumar Mitra, D.Sc.

The Faculty proceeded to elect a member on the Committee of Management of the Basantibijay University School of Mining at Ikhra for the year 1930-31.

On the motion of Professor Praphullachandra Mitter, seconded by Rai Jnanchandra Ghosh, Bahadur, M.A., Professor Sisirkumar Mitra was elected as the representative

of the Faculty on the Committee of Management of the Basantibijay University School of Mining at Ikrah for the year 1930-31.

(Confirmed.)

P. C. RAY,
Dean.

J. C. GHOSH,
Registrar.

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University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1930

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1930.

No. 1.

THE 25TH JANUARY, 1930.

Present:

(Annual.)

Professor W. S. Urquhart, M.A., D.Litt., *Vice-Chancellor, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C., *Director of Public Instruction, Bengal.*

J. R. Barrow, Esq., M.A., *Principal Presidency College, Calcutta.*

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.

Prof. Herambachandra Maitra, M.A.

Kedarnath Das, Esq., C.I.E., M.D.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., M.I.E. (Ind.).

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Prof. Jnanranjan Banerjea, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Orchan, S.J.

Prof. Hiralal Haldar, M.A., Ph.D.

Maulavi Muhammad Irfan, M.A.

S. Khuda Bukhsh, Esq., M.A., B.C.L., Barrister-at-Law.

W. E. Griffith, Esq., M.A.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

W. C. Wordsworth, Esq., M.A.

The Hon'ble Justice Sir Z. R. Zahid Suhrawardy, Kt., Barrister-at-Law.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.C.

Charuchandra Biswas, Esq., M.A., B.L.

R. N. Gilchrist, Esq., M.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

A. H. Harley, Esq., M.A.

Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law.

Major Hassan Suhrawardy, O.B.E., M.D., F.R.C.S., D.P.H.

Khan Bahadur Maulavi Ahsanullah, M.A., M.R.A.S.

Professor Praphullachandra Mitter and Khan Bahadur Tasadduq Ahmad were requested to act as Tellers in connection with the voting on the Faculty of Arts, Mr. Satischandra Ghosh and Dr. Srikumar Banerjee were appointed to act as Tellers for the Faculty of Science.

No Tellers were appointed for the Faculties of Law, Medicine and Engineering.

Prof. Pramathanath Banerjea, with the leave of the Senate, withdrew his name from the list of persons recommended and proposed for the Faculty of Law.

After the names of the other persons recommended and proposed for election to the different Faculties had been voted on, Faculty by Faculty, the **Vice-Chancellor** declared that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1930-31 had been constituted as follows:—

FACULTY OF ARTS.

1 J. R. Barrow, Esq., M.A.
2 Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt.
3 Prof. Herambachandra Maitra, M.A.
4 Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D.
5 Rai Jnanchandra Ghosh, Bahadur, M.A.
6 Rai Lalitmohan Chatterjee, Bahadur, M.A.
7 Prof. Jnanranjan Banerjea, M.A., B.L.
8 Birajmohan Majumdar, Esq., M.A., B.L.
9 Rev. Father F. X. Crohan, S.J.
10 Prof. Hiralal Haldar, M.A., Ph.D.
11 Maulvi Muhammad Irfan, M.A.
12 S. Khuda Bukhsh, Esq., M.A., B.C.L., Barrister-at-Law.
13 W. E. Griffith, Esq., M.A.
14 The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
15 W. C. Wordsworth, Esq., M.A.
16 Prof. W. S. Urquhart, M.A., D.Litt.
17 The Hon'ble Justice Sir Z. R. Zahid Suhrawardy, Kt., Barrister-at-Law.
18 Prof. Praphullachandra Mitter, M.A., Ph.D.
19 Manmathanath Ray, Esq., M.A., B.L.
20 Charuchandra Biswas, Esq., M.A., B.L.
21 R. N. Gilchrist, Esq., M.A., M.L.C.

22 Prof. D. R. Bhandarkar, M.A., Ph.D.
23 A. H. Harley, Esq., M.A.
24 Abdulla-al-Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.
25 Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.
26 Major Hasan Suhrawardy, O.B.E., M.D., F.R.C.S., D.P.H.
27 Ramaprasad Mookerjee, Esq., M.A , B.L.
28 Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).
29 Sir J. C. Coyajee, Kt., B.A., LL.B.
30 Shams-ul-Ulama Hidayet Husain, Khan Bahadur, Ph.D., F.A.S.B.
31 Rai Khagendranath Mitra, Bahadur, M.A.
32 Prof. Pramathanath Banerjea, M.A., D.Sc., Barrister-at-Law.
33 Johan Van Manen, Esq., C.I.E.
34 Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D. (Freiburg), F.R.S.
35 Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law.
36 Adityanath Mukherjee, Esq., M.A., Ph.D.
37 Khan Bahadur Tasadduq Ahmed, B.A., B.T., M.Ed.
38 Prof. Ganesh Prasad, M.A., D.Sc.
39 Rev. P. G. Bridge, D.D.
40 J. W. Holme, Esq., M.A.
41 Prof. S. Radhakrishnan, M.A., D.Litt.
42 Sir Jadunath Sarkar, Kt., C.I.E., M.A., M.L.C.
43 Srikumar Banerjee, Esq., M.A., Ph.D.
44 Matloob Ahmad Khan Chaudhuri, Esq., M.A.
45 Prof. Suniti Kumar Chatterji, M.A., D.Lit. (Lond.).
46 Benoykumar Sen, Esq., M.A.
47 A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
48 Satischandra Ghosh, Esq., M.A.
49 Narendranath Law, Esq., M.A., Ph.D.
50 Khan Bahadur Aziz-ul-Haque, B.L., M.L.C.
51 Rev. Allan Cameron, M.A., B.D
52 Surendranath Dasgupta, Esq., M.A., Ph.D. (Ct. Ph.D. (Cantab.).
53 Rabindranarayan Ghosh, Esq., M.A.
54 Maulvi A. F. M. Abdul Kadir, M.A.
55 Rev. J. N. Rawson, B.Sc., B.D.
56 Mrs. P. K. Ray.

FACULTY OF SCIENCE.

1 H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.
2 Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
3 Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
4 Kedarnath Das. Esq., C.I.E., M.D.
5 Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
6 Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
7 Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
8 Rai Jnanchandra Ghosh, Bahadur, M.A.
9 Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
10 Prof. Praphullachandra Mitter, M.A., Ph.D.
11 Mahendranath Banerjee, Esq., C.I.E., B.A., M.R.C.S.
12 D. Thomson, Esq., M.A., B.Sc., Ph.D.
13 Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).
14 A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
15 Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D. (Freiburg), F.R.S.
16 Jyotishchandra Mitra, Esq., M.A., B.L.
17 Lt.-Col. A. D. Stewart, M.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S.
18 Prof. Ganesh Prasad, M.A., D.Sc.
19 R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
20 Sivapada Bhattacharyya, Esq., M.D.
21 Surendranath Maitra, Esq., M.A., B.A. (Cantab.), A.R.C.S. (Lond.).
22 Rev. Fr. E. Roeland, S.J.
23 Prof. Jnanendranath Mukherjee, D.Sc.
24 D. E. Roberts, Esq., M.Sc.
25 Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
26 Satischandra Ghosh, Esq., M.A.
27 W. A. Jenkins, Esq., D.Sc., M.L.C.
28 M. N. Basu, Esq., M.B.C.M. (Edin.).
29 Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.

Minutes of the Faculty of Science

FOR THE YEAR 1930.

(Special.)

No. 3

THE 13th MARCH, 1930.

Present:

Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D. (Freiburg), F.R.S., *Dean, in the Chair.*

Prof. Praphullachandra Mitter, M.A., Ph.D.

Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).

Prof. Jnanendranath Mukherjee, D.Sc.

Satischandra Ghosh, Esq., M.A.

M. N. Basu, Esq., M.B., C.M. (Edin.).

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.

Hemchandra Dasgupta, Esq., M.A., F.G.S.

Bibhutibhushan Datta, Esq., D.Sc.

Professor Phaniudranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

H. K. Mookerjee, Esq., D.Sc. (Lond.).

Professor Nikhilranjan Sen, D.Sc.

The Faculty proceeded to elect members of the Boards of Studies for the year, 1930-31, in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of studies in Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The undermentioned gentlemen had been proposed for election to the different Boards of Studies under which their names appeared:—

Board of Studies in Chemistry.

1. H. B. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.

3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
5. Rai Jnanchandra Ghosh, Bahadur, M.A.
6. Professor Praphullachandra Mitter, M.A., Ph.D.
7. Professor Jnanendranath Mukherjee, D.Sc.
8. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
9. Professor Hemendrakumar Sen, M.A., D.Sc.

On an examination of the list of gentlemen proposed for election to the different Boards of Studies, it was found that, in the case of each of the following Boards of Studies the number of names proposed did not exceed the number to be elected :—

(10) Board of Studies in Chemistry.
(11) Board of Studies in Experimental and Mathematical Physics.
(12) Board of Studies in Zoology.
(13) Board of Studies in Geology and Mineralogy.
(14) Board of Studies in Botany.
(15) Board of Studies in Physiology.
(16) Board of Studies in Experimental Psychology.
(18) Board of Studies in Geography.
(19) Board of Studies in Teaching.

The Dean, thereupon, declared the under-mentioned gentlemen to be duly elected members of the Boards of Studies noted below :—

(10) *Board of Studies in Chemistry.*

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B.
2. Rai Chunilal Bose, Bahadur, C.I.E., M.B., I.S.O., F.C.S.
3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
5. Rai Jnanchandra Ghosh, Bahadur, M.A.
6. Prof. Praphullachandra Mitter, M.A., Ph.D.
7. ,, Jnanendranath Mukherjee, D.Sc.
8. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem. E.
9. Prof. Hemendrakumar Sen, M.A., D.Sc.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1931

CALCUTTA UNIVERSITY PRESS

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1931.

No. 2.

THE 31ST JANUARY, 1931.

Present:

Dr. Hassan Suhrawardy, O.B.E., M.D., F.R.C.S.I., D.P.H., *Vice-Chancellor, in the Chair.*

H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C., *Director of Public Instruction, Bengal.*

Sir J. C. Coyajee, Kt., B A. LL.B., *Principal, Presidency College.*

Mahamahopadhyay Haraprasad Sastri, C.I.E., M.A., D.Litt., F.A.S.B.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C L., M.L.C.

Prof. Heramhachandra Maitra, M.A.

Sir Devaprasad Sarvadhikary, *Sariratna, Vidyaratnakar,* Kt., C.I.E., C.B.E., M.A., LL.D.

Kedarnath Das, Esq., C.I.E., M.D., F C.O.G.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., M.I.E. (Ind.), M.I.M.E., F.A.S.B.

Satischandra Bagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Crohan, S.J.

S. Khuda Bukhsh, Esq., M.A., B.C.L., Barrister-at-Law.

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

W. C. Wordsworth, Esq., M.A.

Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.

The Hon'ble Justice Sir Z. R. Zahid Suhrawardy, Kt., Barrister-at-Law.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., M.A., B L., M.L.A.

R. N. Gilchrist, Esq., M.A., M.L.C.

Prof. D. R. Bhandarkar, M.A., Ph.D.

A. H. Harley, Esq., M.A.

Abdulla-al Mamun Suhrawardy, Esq., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Shams-ul-Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.

Pramathanath Nandi, Esq., M.D.

Rai Khagendranath Mitra, Bahadur, M.A.

Prabhatnath Banerjee, Esq., M.A., (Cantab.), A.M.I.E. (Ind.).

Prof. Pramathnath Banerjea, M.A., D.Sc., Barrister-at-Law.

Johan Van Manen, Esq., C.I.E.

A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

Surendranath Mallik, Esq., C.I.E., M.A., B.L.

Jyotishchandra Mitra, Esq., M.A., B.L.

Lt.-Col. W. L. Harnett, M.A., M.D. (Camb.), F.R.C.S. (Eng.), I.M.S.

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.

Adityanath Mukherjee, Esq., M.A., Ph.D.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

Captain Dabiruddin Ahmad, O.B.E., L.M.S., A.I.R.O.

Lt.-Col. A. D. Stewart, M.B., Ch.B., F.R.C.S.E., D.P.H., D.T.M.&H., I.M.S.

Prof. Ganesh Prasad, M.A., D.Sc.

The Hon'ble Rai Pramodchandra Datta, Bahadur, C.I.E., B.L.

Sivapada Bhattacherjya, Esq., M.D.

J. W. Holme, Esq., M.A.

Prof. S. Radhakrishnan, M.A., D.Litt.

Rev. Father E. Roeland, S.J.

Sir Jadunath Sarkar, Kt., C.I.E., M.A., M.L.C.

Srikumar Banerjea, Esq., M.A., B.L., Ph.D.

Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

J. Chaudhuri, Esq., M.A., Barrister-at-Law.

The Hon'ble Mr. Bipinbihari Ghose, M.A., B.L.

Lt.-Col. V. B. Green Armytage, M.D., F.R.C.P. (Lond.), F.C.O.G., I.M.S.

Prof. Suniti kumar Chatterji, M.A., D.Litt. (Lond.).

Binaykumar Sen, Esq., M.A.

Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.

Satischandra Ghosh, Esq., M.A.

Saratchandra Bose, Esq., M.A., B.L., Barrister-at-Law.

Mrigendralal Mitra, Esq., L.M.S., F.R.C.S. (Edin.), M.D. (Brux.).

The Hon'ble Mr. Justice Leonard Wilfred James Costello, M.A., LL.B., Barrister-at-Law.

Jatindra mohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).

Lt.-Col. J. D. Sandes, M.D., F.R.C.P.I., I.M.S.

Maulvi Munawar Ali, B.A., LL.B. (Aligarh).

Khan Bahadur Aziz-ul-Haque, B.L., M.L.C.

W. A. Jenkins, Esq., D.Sc., M.L.C.

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).

Rabindranarayan Ghosh, Esq., M.A.

M. N. Bose, Esq., M.B., C.M. (Edin.).

Maulvi A. F. M. Abdul Kadir, M.A.

Sunilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).

Rev. J. N. Rawson, B.Sc., B.D.

Ali Karim Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.

Mrs. P. K. Ray.

Alex. Jardine, Esq., D.Sc., M.Inst.-C.E., M.I.E. (Ind.).
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Mahamahopadhyaya Bhagabatkumar Goswami, Sastri, M.A., Ph.D.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Lt.-Col. Dwarka Prasad Goil, M.B., F.R.C.S.E., I.M.S.
Khan Bahadur Maulvi Muhammad Musa, M.A.
Lt.-Col. R. B. Seymour-Sewell, M.A., Sc.D., F.A.S.B., F.L.S., F.Z.S., I.M.S.
Captain Jitendranath Banerjee, Barrister-at-Law.

The Vice-Chancellor: Gentlemen, before I proceed to begin the formal business of the day, it has again become my mournful duty to refer to the melancholy fact that one more name has been added to the list of the Roll of Honour.

In the death of Dr. Mahendranath Banerjee, C.I.E., we have lost the services of a loyal colleague, a brilliant administrator, a physician of eminence, and a gentleman whose suavity and urbanity of manner rendered him lovable to all those who came in contact with him.

As a Fellow of the University of Calcutta since 1918, as a Member of the Faculty of Medicine, as a Member of the Syndicate, and as the first Principal of the first non-official medical college in India, namely, the Carmichael Medical College, from 1916 to 1922, Dr. Banerjee rendered most eminent service to his profession. He also served as an additional member of the Imperial Legislative Council in 1916, an honour and privilege which few Indian medical men have enjoyed. He also served as a member of the State Medical Faculty of Bengal, and was President of the Ayurvedic Committee which I had the privilege of introducing in the Bengal Legislative Council along with the Tibbi Committee.

Dr. Banerjee rendered long and devoted service to the cause of education in Bengal in more ways than one. Bengal and the Calcutta University, in particular, have suffered a great loss in the death of Dr. Banerjee.

I mourn to-day not only the loss of a colleague, but also the loss of a personal friend of mine. Among the many pleasant recollections of Dr. Banerjee, I have grateful recollection of his coming to the meeting of the Senate held on the 23rd August this year, when, although in failing

***

FACULTY OF SCIENCE

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
3. Kedarnath Das, Esq., C.I.E., M.D., F.C.O.G.
4. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
5. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
6. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7. Rai Jnanchandra Ghosh, Bahadur, M.A.
8. Prof. Praphullachandra Mittor, M.A., Ph.D.
9. D. Thomson, Esq., M.A., B.Sc., Ph.D.
10. Dr. Hasan Suhrawardy, O.B.E., M.D., F.R.C.S.I., D.P.H.
11. Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).

***

The undermentioned gentlemen were proposed for election to the different Boards of Studies under which their names appear:—

Board of Studies in Chemistry.

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
5. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D , F.C.S.
6. Rai Jnanchandra Ghosh, Bahadur, M.A.
7. Prof. Praphullachandra Mitter, M.A., Ph.D.
8. Dr. Hassan Suhrawardy, O.B.E., M.D., F.R.C.S.I., D.P.H.
9. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D. (Freiburg), LL.D., F.R.S., N.L.
10. Prof. Jnanendranath Mukherjee, D.Sc.
11. ,, Debendramohan Bose, M.A., B.Sc., Ph.D.
12. W. A. Jenkins, Esq., D.Sc.
13. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
14. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
15. Alex. Jardine, Esq., D.Sc., M.Inst.C.E., M.I.E. (Ind.).
16. Nibaranchandra Ray, Esq., M.A.
17. Hemchandra Dasgupta, Esq., M.A., F.G.S.
18. Snehamay Datta, Esq., D.Sc.

***

(19) *Board of Studies in Teaching.*

1. Susilkumar Acharyya, Esq., M.Sc.
2. Brojendranath Chuckerbutti, Esq., D.Sc.

A ballot was then taken among the candidates proposed for election to the Board of Studies in Chemistry and the votes recorded were found to have been as follows:—

	Names.	No. of Votes.
1.	Sir Praphullachandra Ray ...	20
2.	Prof. Praphullachandra Mitter ...	20
3.	Prof. Jnanendranath Mukherjee ...	18
4.	Rai Jnanchandra Ghosh, Bahadur ...	17
5.	Prof. Debendramohan Bose ...	16
6.	Ali Karim, Esq. ...	16
7.	Sir C. V. Raman, Kt. ...	15
8.	Prof. Subodhchandra Mahalanobis ...	14
9.	Rai Upendranath Bramachari, Bahadur ...	13
10.	Nibaranchandra Ray, Esq. ...	13
11.	Sir Nilratan Sircar ...	11
12.	Dr. Hasan Suhrawardy ...	7
13.	W. A. Jenkins, Esq. ...	6
14.	Snehamay Datta, Esq. ...	6
15.	H. E. Stapleton, Esq. ...	5
16.	Alex. Jardine, Esq. ...	5

The Dean, thereupon, declared the undermentioned gentlemen to be duly elected members of the Board of Studies in Chemistry for 1931-32:—

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Minutes of the Faculty of Science.

FOR THE YEAR 1931.

No. 9.

THE 19TH SEPTEMBER, 1931.

Present :

Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L., *Dean, in the Chair.*

Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem. E.
Nibaranchandra Ray, Esq., M.A.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Nripendranath Sen, Esq., D.Sc.
Sushilkumar Acharyya, Esq., M.Sc.
Prof. Sisirkumar Mitra, D.Sc.
Brojendranath Chuckerbutti, Esq., D.Sc.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.

The first item of business was as follows :—

1. To consider, at the request of the Syndicate, a letter, dated the 13th August, 1931, from the Offg. Secretary, Council of Post-Graduate Teaching in Science, forwarding the following extract from the Proceedings of the Board of Higher Studies in Chemistry, dated the 3rd August, 1931, which was confirmed by the Executive Committee of the Council on the 11th August, 1931 :—

" *Resolved*—That the Board recommend that, in Chapter XI, dealing with the Post-Graduate Teaching in Science, a sub-clause ' VII. Applied Chemistry ' be added ; that to clause 19, another clause 19 (*i*) be added as follows :—

(*a*) Teachers in Applied Chemistry under Section 8 : such teachers shall be members *ex-officio*.

(*b*) Chairman of the Board of Higher Studies in Pure Chemistry, *ex-officio*.

(*c*) Three persons selected by the Council from amongst its members.

(*d*) Three technical experts to be co-opted by the Board of Higher Studies in Applied Chemistry.

Note.—If the Board does not contain at least three members from the Pure Chemistry Board, it should co-opt one additional member from it.

The Board of Pure Chemistry shall also consist of the Chairman of the Board of Applied Chemistry as an *ex-officio* member and further that if the Board of Higher Studies in Pure Chemistry does not contain three members of the Applied Chemistry Board, it should co-opt one additional member from it."

In this connection, notices of the following amendments were received :—

1. *Prof. Praphullachandra Mitter*—That the recommendations of the Board of Higher Studies in Chemistry as confirmed by the Executive Committee be adopted with the following alterations :—

That in Section 18, Chapter XI, (*iii*) Chemistry be changed to (*iii*) Pure Chemistry.

That a sub-clause (*vii*) Applied Chemistry be added after (*vi*) Applied Physics.

That, at the end of Section 19, Chapter XI of the Regulations, the following be added :—

"Provided also that the Board of Higher Studies in Applied Chemistry shall consist of," etc.

That, after the para. marked 'note' the following be added :—
"Provided further that."

Mr. Hemchandra Dasgupta—The Faculty of Science accepts the principles regarding the constitution of the Boards of Higher Studies in Chemistry and Applied Chemistry, as embodied in the letter, dated the 13th August 1931, from the Offg. Secretary, Council of Post-Graduate Teaching in Science and resolves that a Sub-Committee consisting of the following members of the Faculty of Science be formed to draft the necessary changes that must be introduced in the existing Regulations to give effect to these principles :—

Rai Jnanchandra Ghosh, Bahadur.
Prof. Praphullachandra Mitter
" Jnanendranath Mukherjee.
Mr. Nibaranchandra Ray.
The Mover.

Dr. Ali Karim moved—

That the Faculty recommend that, in the Chapter XI, dealing with the Post-Graduate Teaching in Science, a

sub-clause ' VII Applied Chemistry ' be added and that, to clause 19, another clause 19 (*i*) be added as follows:—

(*a*) Teachers in Applied Chemistry under Section 3 ; such teachers shall be members *ex-officio*.

(*b*) Chairman of the Board of Higher Studies in Pure Chemistry, *ex-officio*.

(*c*) Three persons selected by the Council from amongst its members.

(*d*) Three technical experts to be co-opted by the Board of Higher Studies in Applied Chemistry.

Note.—If the Board does not contain at least three members from the Pure Chemistry Board, it should co-opt one additional member from it.

The Board of Pure Chemistry shall also consist of the Chairman of the Board of Applied Chemistry as an *ex-officio* member and further that if the Board of Higher Studies in Pure Chemistry does not contain three members of the Applied Chemistry Board, it should co-opt one additional member from it.

Mr. Surendrachandra Banerjee seconded the motion.

Prof. Praphullachandra Mitter moved, as an amendment, that the above recommendations of the Board of Higher Studies in Chemistry, as confirmed by the Executive Committee, be adopted with the following alterations:—

That, in Section 18, Chapter XI, (*iii*) Chemistry be changed to (*iii*) Pure Chemistry.

That a Sub-Clause (*vii*) Applied Chemistry be added after (*vi*) Applied Physics.

That, at the end of Section 19, Chapter XI of the Regulations, the following be added :—

" Provided also that the Board of Higher Studies in Applied Chemistry shall consist of," etc.

That, after the para. mark 'note,' the following be added :—

"Provided further that".

He said: The alterations are more or less of verbal character, namely, in Section 18, Chapter XI, 'Chemistry' be changed to 'Pure Chemistry.' We have then added a Sub-head Applied Chemistry in order that there should

be some sort of distinction between the two—between Pure Chemistry and Applied Chemistry. Applied Physics now occurs in the Regulations as sub-head (*vi*), and it is suggested that Applied Chemistry should be added to the list as sub-head (*vii*). At the end of section 19, we should have a sub-clause which will run as follows:—"Provided also that the Board of Higher Studies in Applied Chemistry shall consist of," etc. This has been adopted by the Executive Committee of the Council of Post-Graduate Teaching in Science. It will mean that an additional Board of Higher Studies in Pure Chemistry will be added to the list In the case of Pure Chemistry Board, the Chairman of the Applied Chemistry should be the *ex-officio* member of the Board and the Chairman of the Pure Chemistry Board will, similarly, be the *ex-officio* member of the Applied Chemistry Board. The University Organization Committee recommended this for proper co-ordination between the different Boards.

Sir C. V. Raman: There was a Committee which consisted members of both the Boards, namely, Physics and Chemistry, and I think Dr. Mukherjee moved an amendment and that amendment ultimately was accepted with respect to Physics, but, with regard to Chemistry, it was held up. We are not concerned with what happened in Physics. We are to consider the case of Chemistry Board.

Professor Jnanendranath Mukherjee: If you refer to the Organization Committee's Report, you will find that a Special Committee was appointed and that Committee definitely recommended to secure co-ordination between Pure and Applied Chemistry, the creation of a different Board, namely, the Applied Chemistry Board. The Chairman of the Applied Physics Board should be *ex-officio* Member of the Pure Physics Board and similar is the case for Chemistry. (Here Dr. Mookerjee quoted from Organization Committee's Report.)

Mr. Susilkumar Acharyya: Here we find that, in the Regulations, as accepted by Government, this matter is omitted. There is nothing mentioned as regards similar relation between the Chairman of the Boards of Higher Studies in Physics, Pure and Applied, and the Boards. As it is contemplated to change the whole constitution of the Boards, I think, we should reconsider the whole thing.

79

The University of Calcutta & Acharya P.C.Ray 1906-1944

Sir C. V. Raman: What is now before us is the constitution of the Chemistry Board and we have no concern with Physics Board.

Mr. Sushilkumar Acharyya: The whole thing may be referred back to the Executive Committee.

Mr. Nibaranchandra Ray: It seems there are some difficulties which have not been pointed out. It has not been noted at all what will be the numbers of Geology and Zoology. The Organization Committee has done something and we are doing another. There is no co-ordination of all the subjects and the Regulations are in a hopeless mess. As regards the Chairmen of Boards of Studies, they do not exist in the present Regulations at all. There are Heads of Departments. It does not recognise that the Chairman of one Board should be the *ex-officio* member of the other. If I am not mistaken, there is another point in the Organization Committee Report. That is about teacher of Colleges becoming Members of Higher Boards. If you are making any changes in the Regulations, the whole thing should be considered from the point of view of the Organization Committee Report. And I remember one point more that some members of the Higher Boards should be the members of lower Boards. That again is not being done.

Professor Jnanendranath Mukherjee: We cannot do that until and unless the present Regulations are changed. Under the present Regulations, the Board of Studies is quite distinct from the Board of Higher Studies. At the present moment, we have not got co-ordination between the Boards of Studies and we are giving effect to the recommendation of the Organisation Committee. When time comes all these will have to be revised. The Senate have appointed a Committee to change the Regulations as accepted by the Senate at the instance of the Organization Committee. The wholesale changes in the Regulations will be made afterwards. Under the circumstances, I think, we should accept the recommendation.

Mr. Nibaranchandra Ray then moved that it be referred back to the Syndicate for general revision.

The motion fell through for want of a seconder.

The first part of the amendment of Prof. Praphullachandra Mitter was then put to vote and carried.

The second part of the amendment was next put to vote and carried.

The motion, as amended, was then put to vote and carried.

The changes in the Regulations, as adopted, are as follows:—

That in Section 18, Chapter XI of the Regulations, "(*iii*)" Chemistry be changed to "(*iii*) Pure Chemistry."

That a sub-clause (*vii*) Applied Chemistry be added after (*vi*) Applied Physics.

That, at the end of Section 19, Chapter XI of the Regulations, the following be added:—

" Provided also that the Board of Higher Studies in Applied Chemistry shall consist of:—

(*a*) Teachers in Applied Chemistry under Section 3; such teachers shall be members *ex-officio*.

(*b*) Chairman of the Board of Higher Studies in Pure Chemistry, *ex-officio*.

(*c*) Three persons selected by the Council from amongst its members.

(*d*) Three technical experts to be co-opted by the Board of Higher Studies in Applied Chemistry.

Note.—If the Board does not contain at least three members from the Board of Higher Studies in Pure Chemistry, it should co-opt one additional member from it.

Provided further that the Board of Higher Studies in Pure Chemistry shall also consist of the Chairman of the Board of Higher Studies in Applied Chemistry as an *ex-officio* member and further that, if the Board of Higher Studies in Pure Chemistry does not contain three members of the Board of Higher Studies in Pure Chemistry, it should co-opt one additional member from it."

2. **Mr. Nibaranchandra Ray** moved that the following Report of the Committee appointed by the Faculty of Science to consider the proposed changes in Chapter LIV of the Regulation *re* Academic Costume for the Doctorate Degree, be adopted:—

Resolved—That the Committee recommend to the Faculty the following resolution :—

That the Doctor's gown will be of full scarlet silk (without facing) and the hood also of scarlet silk with a lining of satin, corresponding to the colour of the Faculty concerned (light-blue in the case of Science Faculty).

The 25th July, 1931.

C. V. RAMAN.
JNANCHANDRA GHOSH.
N. C. RAY.
R. B. SEYMOUR-SEWELL.
S. DATTA.

Prof. Praphullachandra Mitter seconded the motion, which was carried.

The next item was as follows :—

3. The Registrar to place before the meeting a requisition signed by six members of the Faculty asking for the consideration of the question of inclusion of Civics and Logic as additional subjects for the I.Sc. Examination.

The Registrar also to place before the Faculty, in this connection, the Minutes of a Joint Meeting of the Faculties of Arts and Science, dated the 12th September, 1931, and to report that the following resolution was passed at the Joint Meeting :—

That, in line 3 of Section 8 of Chapter XXXV (I.Sc. Examination) of the Regulations (p. 251 of the edition of 1930), the followings words be added after the words 'or in French or in German' or *Elements of Civics and Logic.*

(The matter was placed before the Syndicate on the 14th September, 1931, when it was ordered to be placed before the Faculty of Science for opinion.)

It was decided that consideration of the item be postponed.

(Confirmed:)

C. V. RAMAN, *Dean.*

A. N. MUKHERJEE, *Registrar.*

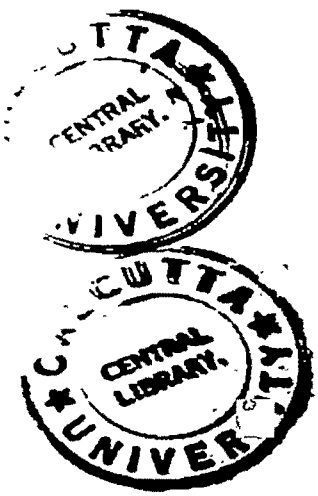
UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1932



CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Science

FOR THE YEAR 1932.

No. 1.

THE 19TH JANUARY, 1932.

(Special.)

Present :

Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L., *Dean, in the Chair.*

Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Nibaranchandra Ray, Esq., M.A.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Nripendranath Sen, Esq., D.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Brojendranath Chuckerbutti, Esq., D.Sc.
Prof. Nikhilranjan Sen, D.Sc., Ph.D.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.

The Faculty met to elect an Ordinary Fellow in place of Prof. Praphullachandra Mitter, M.A., Ph.D., whose tenure of office as an Ordinary Fellow would expire under Section 4 of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921) on the 13th February, 1932.

Under Section 4, Sub-Section (2) of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921), Professor Praphullachandra Mitter, M.A., Ph.D., was eligible for re-election.

The undermentioned gentleman had been proposed for election :—

Name.	*Proposed by—*
Professor Praphullachandra Mitter, M.A., Ph.D.	1. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S. 2. Jatindramohan Ray, Esq., B.A., C.E. (Roorkee). 3. Snehamay Datta, Esq., D.Sc.

Qualifications as stated by the Proposers.

M.A. (Cal.); Ph.D. (Berlin); Sir Rashbehary Ghose Professor of Chemistry since 1914; Fellow of the Calcutta University since 1917; Member of the Syndicate, 1925-27.

Author of numerous original papers; President, Chemistry Section, Indian Science Congress, 1930; Secretary, Indian Chemical Society.

As only one name was proposed for election, the Dean declared Prof. Praphullachandra Mitter, M.A., Ph.D., to be duly elected an Ordinary Fellow of the University subject to the approval of His Excellency the Chancellor.

(Confirmed.)

C. V. RAMAN,
Dean.

A. N. MUKHERJEE,
Registrar.

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The University of Calcutta & Acharya P.C Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1932.

No. 2.

THE 30TH JANUARY, 1932.

Present :

Dr. Hassan Suhrawardy, O.B.E., M.D., F.R.C.S.I., D.P.H.,
Vice-Chancellor, in the Chair.

J. M. Bottomley, Esq., B.A (Oxon.).
Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.I.C.
Prof. Haraprasad Shastri, M.A., D.Litt.
Sir Devaprasad Sarvadhikary, *Sarvatatva Vidyaratnakar*, Kt., C.I.E., C.B.E., M.A., LL.D.
Kedarnath Das, Esq., C.I.E., M.D., F.C.C.G.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., D.Sc., M.I.E. (Ind.), M.I.M.E., F.A.S.B.
Satishchandra Bagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Hirendramohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Prof. Hiralal Haldar, M.A., Ph.D.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
W. C. Wordsworth, Esq., M.A.
Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M.L.A.
R. N. Gilchrist, Esq., M.A., M.L.C.
Prof. D. R. Bhandarkar, M.A., Ph.D.
A. H. Harley, Esq., M.A.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.
Aga Mirza Muhammad Kazim Shirazi.
Hamaprasad Mookerjee, Esq., M.A., B.L.
Pramathanath Nandi, Esq., M.D.
Rai Khagendranath Mitra, Bahadur M.A.
Prabhatnath Banerjee, Esq., M.A., (Cantab.), A.M.I.E. (Ind.).

Prof. Pramathanath Banerjee, M.A., D.Sc., Barrister-at-Law.
A. Macdonald Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Surendranath Mallik, Esq., C.I.E., M.A., B.L.
Jyotischandra Mitra, Esq., M.A., B.L.
Lt.-Col. W. L. Harnett, M.A., M.D., (Camb.), F.R.C.S. (Eng.), I.M.S.
Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.
Adityanath Mukherjee, Esq., M.A., Ph.D.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Captain Dabiruddin Ahmad, O.B.E., L.M.S., A.I.R.O.
Prof. Ganesh Prasad, M.A., D.Sc.
R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
Sivapada Bhattacharyya, Esq., M.D.
J. W. Holme, Esq., M.A.
Rev. Father E. Rosland, S.J.
Sir Jadunath Sarkar, Kt., C.I.E. M.A., M.L.C.,
Srikumar Banerjee, Esq., M.A., B.L., Ph.D.
Nawabzada A. S. M. Latif-ur-Rahman M.A. (Cantab.), Barrister-at-Law.
The Hon'ble Sir Bipinbihari Ghosh, Kt., M.A., B.L.
Lt.-Col. V. B. Green-Armytage, M.D., F.R.C.P. (Lond.), F.C.O.G., I.M.S.
Prof. Debendramohan Bose, M.A., B.Sc., Ph.D.
Satischandra Ghosh, Esq., M.A.
Mrigendralal Mitra, Esq., L.M.S., F.R.C.S. (Edin.), M.D. (Brux.).
Jatindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
Maulvi Munawar Ali, B.A., LL.B. (Aligarh).
W. A. Jenkins, Esq., D.Sc.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D (Cantab.).
Rabindranarayan Ghosh, Esq., M.A.
M. N. Basu, Esq., M.B., C.M. (Edin.)
Maulvi A. F. M. Abdul Kadir, M.A.
Susilkumar Mukherjee Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Mahamahopadhyay Bhagabatkumar Goswami, Sastri, M.A., Ph.D.
Nibaranchandra Ray, Esq., M.A.
Lt.-Col. Dwarka Prasad Goil, M.B., F.R.C.S.E., I.M.S.
Captain Jitendranath Banerjee, Barrister-at-Law.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Rev. A. R. Spooner, B.A. (Lond.).
Lt.-Col. E. W. O'G. Kirwan, M.B., F.R.C.S., I.M.S.

The Vice-Chancellor: Before we begin the ordinary business of this afternoon, I have again the mournful duty of reporting to you the death of some of our past Fellows and members who were connected with our University.

The Hon'ble Sir Mian Muhammad Shafi, K.C.S.I., C.I.E, was a member of His Excellency the Viceroy's Executive Council in charge of the departments of Education, Health and Land and he was also an *ex-officio* Fellow

FACULTY OF SCIENCE.

1. J. M. Bottomley, Esq., B.A. (Oxon.).
2. Bhupatimohan Sen, Esq., M.A. (Cantab.)., M.Sc.
3. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
4. Kedarnath Das, Esq., C.I.E , M.D., F.C.O.C.
5. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
6. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
7. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
8. Rai Jnanchandra Ghosh, Bahadur, M.A.
9. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
10. Prof. Praphullachandra Mittor, M.A., Ph.D.
11. D. Thomson, Esq., M.A., B Sc., Ph.D.
12. Sir Hassan Suhrawardy, Kt., O.B.E , M.D., F.R.C.S.I., D.P.H.
13. Pramathanath Nandi, Esq., M.D.
14. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
15. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L.
16. Jyotischandra Mitra, Esq., M.A., B.L.
17. Lt.-Col. A.D. Stewart, M.B., Ch.B., F.R.C.S.E., D.P.H., D.T.M.&H., I.M.S.
18. Prof. Ganesh Prasad, M.A., D.Sc.
19. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
20. Sivapada Bhattacharyya, Esq., M.D.
21. Rev. Fr. E. Roeland, S.J.
22. Prof. Jnanendranath Mukherjee, D.Sc.
23. D. E. Roberts, Esq., M.Sc.
24. Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).
25. Satischandra Ghosh, Esq., M.A.
26. Mrigendralal Mitra, Esq., L.M.S., F.R.C.S (Edin.), M.D. (Brux.).
27. Jatindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
28. W. A. Jenkins, Esq., D.Sc.
29. M. N. Bose, Esq., M.B., C.M. (Edin.).

Minutes of the Faculty of Science

FOR THE YEAR 1932.

No. 3.

THE 3RD MARCH, 1932.

(Special.)

Present :

Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L., *Dean, in the Chair.*

Bhupatimohan, Sen, Esq., M.A., (Cantab.), M.Sc.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Pramathanath Nandi, Esq., M.D.
Jyotischandra Mitra, Esq., M.A., B.L.
Prof Ganesh Prasad, M.A., D.Sc.
R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E, M.I.E. (Ind.), Barrister-at-Law.
Sivapada Bhattacharyya, Esq., M.D.
Prof. Jnanendranath Mukherjee, D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.).
Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
Ali Karim, Esq., B.Sc., (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem E.
Nibaranchandra Ray, Esq., M.A.
Hemchandra Dasgupta, Esq., M.A., F.G.S.

The Faculty met to elect Added Members for the year 1932-33.

The following were the names and statement of the qualifications of persons proposed for election :—

Name.	Proposed by—
1. Acharyya, Mr. Susilkumar, M.Sc.	M. N. Bose, Esq., M.B., C.M. (Edin.).

Statement of Qualifications.

Lecturer in Physics, Calcutta University; Secretary, Post-Graduate Council of Teaching in Science; Added Member of the Faculty of Science for several years.

21

Pass Examinations of the Calcutta for many years. He is the first and only Professor from mofussil to serve as an Added Member of the Faculty of Science and Boards of Studies in Botany, Zoology and Chemistry in the Calcutta University for two years in succession. He rendered very useful service on the Boards. He is the author of several original papers on Botany, Genetics and Agriculture published in well-known Indian and American Magazines. He is the first Indian to do research on genetics. He is the first Indian to deliver a course of lectures on Agriculture in the Calcutta University (1925-26). He is the first Indian to be appointed Reader in Botany in the Punjab University (1921).

16. Sircar, Dr. Anukulchandra, M.A., Ph.D. — Sir Praphullachandra Roy, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Statement of Qualifications.

M.A.; Ph.D.; Premchand Roychand Scholar and Mouat Medallist ; in the B.E.S. since 1914 ; Reader, Dacca University, 1921-27 ; has acted as Examiner in the Universities of Dacca and Calcutta in the I.Sc., B.Sc., M.Sc., and P.R.S. Examinations since 1911 ; Author of a large number of papers of lasting value, published in the various scientific journals ; Added Member of the Faculty of Science, 1918-20.

On a ballot being taken among the candidates proposed for election, the votes recorded were found to have been as follows:—

1.	Mr. Susilkumar Acharyya, M.Sc. ...	14 votes.
2.	Prof Nikhilranjan Sen, M.Sc., Ph.D. ...	14 ,,
3.	Dr. Nripendranath Sen, D.Sc. ...	14 ,,
4.	Prof. Hemendrakumar Sen, M.A., D.Sc., D.I.C.	13 ,,
5.	Prof. Phanindranath Ghosh, M.A., Ph.D., D.Sc., F.Inst.P.	10 ,,
6.	Prof. Sisirkumar Mitra, D.Sc. ...	10 ,,
7.	Mr. Surendrachandra Banerjee, M.A., B.Sc., F.L.S.	9 ,,
8.	Dr. Snehamay Datta, D.Sc.	9 ,,
9.	Dr. Brojendranath Chuckerbutti, D.Sc. ...	8 ,,
10.	Dr. Himadrikumar Mookerjee, D.Sc., D.I.C.	8 ,,

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Science.

FOR THE YEAR 1932.

No. 4.

THE 29TH MARCH, 1932.

(Special.)

Present:

Sir C. V. Raman, Kt., M.A., D.Sc., F.R.S., N.L., *Dean, in the Chair.*

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Jatindranath Maitra, Esq., M.B.
Prof. Ganesh Prasad, M.A., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.-Chem.E.
Niharanchandra Ray, Esq., M.A.
Hemchandra Dasgupta, Esq., M.A., F.G.S.
Mohammad Qudrat-I-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Sasilkumar Acharyya, Esq., M.Sc.
Prof. Nikhilranjan Sen, M.Sc., Ph.D.
Nripendranath Sen, Esq., D.Sc.
Prof. Hemendrakumar Sen, M.A., D.Sc., D.I.C.
Prof. Sisirkumar Mitra, D.Sc.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.
Snehamay Datta, Esq., D.Sc.

The Faculty met to elect Members of the Boards of Studies for the year 1932-33 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two Members for the Board of Studies in Experimental Psychology, not more than six Members for the Board of Studies in Mathematics, not more than six Members for the Board of Studies in Geography and not more than three Members for the Board of Studies in Teaching.

The undermentioned gentlemen were proposed for election to the different Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
2. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
3. Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
5. Rai Jnanchandra Ghosh, Bahadur, M.A.
6. Professor Praphullachandra Mitter, M.A., Ph.D.
7. D. Thomson, Esq., M.A., B.Sc., Ph.D.
8. Sir Hassan Suhrawardy, Kt., O.B.E., M.D., F.R.C.S.I., D.P.H.
9. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L.
10. Professor Jnanendranath Mukherjee, D.Sc.
11. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin).
12. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
13. Nibaranchandra Ray, Esq., M.A.
14. Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
15. Professor Hemendrakumar Sen, M.A., D.Sc., D.I.C.
16. Snehamay Datta, Esq., D.Sc.

Board of Studies in Experimental & Mathematical Physics.

1. Rai Jnanchandra Ghosh, Bahadur, M.A.
2. D. Thomson, Esq., M.A., B.Sc., Ph.D.
3. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
4. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L.
5. Professor Ganesh Prasad, M.A., D.Sc.
6. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Bar.-at-Law.
7. Rev. Father E. Roeland, S.J.
8. D. E. Roberts, Esq., M.Sc.

Board of Studies in Physiology.

1. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
2. Kedarnath Das, Esq., C.I.E., M.D., F.C.O.G.
3. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
4. Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
5. Bidhanchandra Ray, Esq., B.A., M.D., F.R.C.S. (Eng.), M.R.C.P. (Lond.).
6. Jatindranath Maitra, Esq., M.B.
7. Pramathanath Nandi, Esq., M.D.
8. M. N. Bose, Esq., M.B. C.M. (Edin.).
9. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
10. Lalitmohan Banerjee, Esq., M.S., F.R.C.S.
11. Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.

Board of Studies in Experimental Psychology.

1. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
2. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

A ballot was then taken among the candidates proposed for election to the Board of Studies in Chemistry and the votes recorded were found to have been as follows:—

1. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S. — 13 votes
2. Professor Praphullachandra Mitter, M.A., Ph.D. — 13 ,,
3. Professor Jnanendranath Mukherjee, D.Sc. — 13 ,,
4. Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C. — 12 ,,
5. Rai Jnanchandra Ghosh, Bahadur, M.A. — 11 ,,
6. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E. — 11 ,,
7. Nibaranchandra Ray, Esq., M.A. — 11 ,,

8.	Professor Hemendrakumar Sen, M.A., D.Sc., D.I.C.	11	votes.
9.	Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.	10	,,
10.	Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L.	8	,, ,,
11.	Professor Subodhchandra Mahalanobis, B.Sc., F R.S.E.	7	,,
12.	D. Thomson, Esq., M.A., B.Sc., Ph.D.	6	,,
13.	Snehamay Datta, Esq., D.Sc. ...	6	,,
14.	Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.	5	,,
15.	Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).	3	,,

On a scrutiny of the votes, it was found that, for the twelfth place, there was a tie among Dr. D. Thomson and Dr. Snehamay Datta, each of whom obtained 6 votes.

A fresh ballot was then taken among the candidates, and the following votes were thereupon found to have been recorded :—

Dr. Snehamay Datta	10	votes
Dr. D. Thomson	5	,,

The Dean thereupon declared the undermentioned gentlemen to be duly elected Members of the Board of Studies in Chemistry for the year 1932-33 :—

1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
2. Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
4. Rai Jnanchandra Ghosh, Bahadur, M.A.
5. Professor Praphullachandra Mitter, M.A., Ph.D.
6. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L.
7. Professor Jnanendranath Mukherjee, D.Sc.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1933

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1933.

No.

THE 21ST JANUARY, 1933.

Present:

Sir Hassan Suhrawardy, Kt., O.B.E., M.D., F.R.C.S.I., D.P.H., *Vice-Chancellor, in the Chair.*

Bhupatimohan Sen, Esq., M.A., M.Sc., *Principal, Presidency College, Calcutta.*
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L.
Kedarnath Das, Esq., C.I.E., M.D., F.C.O.G.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., D.Sc., M.I.E. (Ind.), M.I.M.E., F.A.S.B.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Prof. Jnanranjan Banerjea, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Croban, S.J.
Prof. Hiralal Haldar, M.A., Ph.D.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
W. C. Wordsworth, Esq., M.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M.L.A.
R. N. Gilchrist, Esq., M.A., M.L.C.
Prof. D. R. Bhandarkar, M.A., Ph.D.
Sir Abdulla-al-Mamun Suhrawardy, Kt., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.
Pramathanath Banerjea, Esq., M.A., B.L., Barrister-at-Law.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Shams-ul Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.
Jatindranath Maitra, Esq., M.B.
Pramathanath Nandi, Esq., M.D.
Rai Khagendranath Mitra, Bahadur, M.A.
Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

4. The Senate then proceeded to constitute the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1933-34.

A ballot was thereupon taken for election of members proposed for each of the faculties.

[For the Faculty of Arts Rai Bahadur Khagendranath Mitra, M A., and Maulvi A. F. M. Abdul Kadir, M.A., were requested to act as tellers.

Mr. Nibaranchandra Ray and Khan Bahadur Maulvi Mohamed Musa were requested to act as tellers for the Faculty of Science.

For the Faculties of Law, Medicine and Engineering Dr. Mohammed Qudrat-i-Khuda and Prof. Phanindranath Ghosh were requested to act as tellers.]

On a scrutiny of the ballot papers it was found that all the persons recommended by the Syndicate as also those proposed for each of the Faculties had been elected to the Faculties concerned. The Vice-Chancellor therefore declared the Faculties to be constituted as follows:—

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FACULTY OF SCIENCE

1. H. E. Stapleton, Esq., M.A., B.Sc., F.A.S.B., M.L.C.
2. Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
3. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
4. Kedarnath Das, Esq., C.I.E., M.D., F.C.O.G.
5. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
6. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
7. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
8. Rai Jnanchandra Ghosh, Bahadur, M.A.

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Minutes of the Faculty of Science

FOR THE YEAR 1933.

No. 3.

THE 6TH MARCH, 1933.

(Special.)

Present :

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E., *in the Chair.*

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Ganesh Prasad, M.A., D.Sc.
Satischandra Ghosh, Esq., M.A.
Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S (Edin.).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (London), D.I.C., A.I.C., A.M.I.Chem.E.
Nibaranchandra Ray, Esq., M.A.
Mahammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Nikilranjan Sen, D.Sc.
Nripendranath Sen, Esq., D.Sc.
Susilkumar Acharyya, Esq., M.Sc.
Surendrachandra Banerjee, Esq., M.A., B.Sc., F.L.S.
Prof. Sisirkumar Mitra, D.Sc.
Himadrikumar Mookerjee, Esq., D.Sc., (Lond.) D.I.C.
Prasantachandra Mahalanobis, Esq., M.A., (Cantab.).
Dwarkanath Mukhopadhyay, Esq., M.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1933-34 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology, and also to elect not more than two members for the Board of Studies in Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

In the absence of the Dean Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E., was voted to the Chair.

The undermentioned gentlemen were proposed for election to the different Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
4. Prof. Praphullachandra Mitter, M.A., Ph.D.
5. Prof. Jnanendranath Mukherjee, D.Sc.
6. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
7. Ali Karim, Esq., B.Sc., (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
8. Nibaranchandra Ray, Esq , M.A.
9. Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.). D.I.C.
10. Prof. Hemendrakumar Sen, M.A., D.Sc., D.I.C.
11. Prasantachandra Mahalanobis, Esq., M.A. (Cantab.).
12. Dwarkanath Mukhopadhyay, Esq., M.Sc.

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On an examination of the list of gentlemen proposed for election to the different Boards of Studies it was found that in the case of each of the following Boards of Studies

21

the number of names proposed did not exceed the number to be elected :—

(1) Board of Studies in Chemistry.
(2) Board of Studies in Geology and Mineralogy.
(3) Board of Studies in Geography.

The Chairman thereupon declared the undermentioned gentlemen to be duly elected members of the Boards of Studies under which their names appeared :—

Board of Studies in Chemistry.

1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
4. Prof. Praphullachandra Mitter, M.A., Ph.D.
5. Prof. Jnanendranath Mukherjee, D.Sc.
6. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (London), F.R.C.S. (Edin.).
7. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
8. Nibaranchandra Ray, Esq., M.A.
9. Mahammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Prof. Hemendrakumar Sen, M.A., D.Sc., D.I.C.
11. Prasantachandra Mahalanobis, Esq., M.A. (Cantab.).
12. Dwarkanath Mukhopadhyay, Esq., M.Sc.

Minutes of the Senate

FOR THE YEAR 1933.

No. 11.

THE 16TH DECEMBER, 1933.

Present :

Sir Hassan Suhrawardy, Kt., O.B.E., LL.D., M.D., F.R.C.S.I., D.P.H., *Vice-Chancellor, in the Chair.*

J. M. Bottomley, Esq., B.A. (Oxon.), M.L.C., *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A., M.Sc., *Principal, Presidency College, Calcutta.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.

Prof. Hirambachandra Maitra, M.A., D.Litt.

Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.C.G.

Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Satischandra Bagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.

Prof. Jnanranjan Banerjee, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Crohan, S.J.

Dr. Hiralal Haldar, M.A., Ph.D.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).

The Hon'ble Mr. Justice Dwarakanath Mitter, M.A., D.L.

W. C. Wordsworth, Esq., M.A.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M.L.A.

R. N. Gilchrist, Esq., M.A., M.L.C.

Prof. D. R. Bhandarkar, M.A., Ph.D.

A. H. Harley, Esq., M.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rev. A. E. Brown, C.I.E., M.A. (Cantab.), D.Sc. (Lond.).

Sams-ul-Ulema Hidayet Husain, Khan Bahadur, F.A.S.B.

Prof. Khagendranath Mitra, Rai Bahadur, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Prof. Pramathanath Banerjee, M.A., D.Sc., Barrister-at-Law.

A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

Surendranath Mallik, Esq., C.I.E., M.A., B.L.

Jyotischandra Mitra, Esq., M.A., B.L.

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1934

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candidates who satisfied the above condition and the votes recorded were found to have been as follows :—

Prof. W. S. Urquhart	...	60 votes.
Mr. Bhupatimohan Sen	...	55 ,,
Dr. Surendranath Dasgupta	...	38 ,,

The Vice-Chancellor thereupon declared Mr. Bhupatimohan Sen and Prof. W. S. Urquhart duly elected as representatives of the Senate on the Syndicate for the year 1934-35.

Prof. Surendranath Dasgupta withdrew his name from the second ballot.

A ballot was then taken among the following candidates and the votes recorded were found to have been as follows :—

Dr. Susilkumar Mukherjee	...	71 votes.
Mr. Charuchandra Biswas	...	59 ,,
Khan Bahadur Shams-ul-Ulama Hidayet Husain.		32 ,,

The Vice-Chancellor thereupon declared the undermentioned gentlemen duly elected as representatives of the Senate on the Syndicate for the year 1934-35 :—

Mr. Charuchandra Biswas.

Dr. Susilkumar Mukherjee.

3. The Senate proceeded to constitute the *Faculties of Arts, Science, Law, Medicine* and *Engineering* for the year 1934-35.

[A statement showing the names of persons recommended by the Syndicate for election to the different Faculties as also the additional names proposed by Members of the Senate under Section 9, Chapter III of the Regulations, had been previously circulated.]

After the names of persons recommended and proposed for election to the different Faculties had been voted on Faculty by Faculty, the Vice-Chancellor declared that the

Faculties of Arts, Science, Law, Medicine and Engineering for the year 1934-35 had been constituted as follows:—

FACULTY OF ARTS.

J. M. Bottomley, Esq., B.A. (Oxon.), M.L.C.
Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Herambachandra Maitra, M.A., D.Litt.
Sir Devaprasad Sarvadhikary, Kt., C.I.E., C.B.E., M.A., LL.D.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Satischandra Bagchi, Esq., B.A., LL.B., LL.D., Barrister-at-Law.
Rai Lalitmohan Chatterjee, Bahadur, M.A.
Prof. Jnanranjan Banerjea, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A., Ph.D.
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
W. C. Wordsworth, Esq., M.A.
Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M L.A.
R. N. Gilchrist, Esq., M.A., M.L.C.
Prof. D. R. Bhandarkar, M.A., Ph.D.
A. H. Harley, Esq., M.A.
Sir Abdulla-al-Mamun Suhrawardy, Kt., M.A., D.Litt., Ph.D., Barrister-at-Law, M.L.A.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.
Khan Bahadur Agha Mirza Mohammad Kazim Shirazee.
Sir Hassan Suhrawardy, Kt., O.B.E., LL.D., M.D., F.R.C.S.I., D.P.H.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Shams-ul-Ulama Hidayet Hussin, Khan Bahadur, F.A.S.B.

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
The Hon'ble Mr. Justice Manmathanath Mukherjee, M.A., B.L.
Mahendranath Gohain, Esq., M.L.C.
Nalinikanjan Sarkar, Esq.
Khan Bahadur Abdullah Abu Saiyed, M.A.
Jitendralal Banerjea, Esq., M.A., B.L., M.L.C.

FACULTY OF SCIENCE.

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.
Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).
Prof. Praphullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Jatindranath Maitra, Esq., M.B.
Pramathanath Nandi, Esq., M.D.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L.
Jyotischandra Mitra, Esq., M.A., B.L.
Lt.-Col. A. D. Stewart, C.I.E., M.B., Ch.B., F.R.C.S.E., D.P.H., D.T.M.& H., I.M.S.
Prof. Ganesh Prasad, M.A., D.Sc.
Sivapada Bhattacharyya, Esq., M.D.
Rev. Fr. E. Roeland, S.J.
Prof. Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.
Satischandra Ghosh, Esq., M.A.
Mrigendralal Mitra, Esq., M.D., F.R.C.S. (Edin.).
Jatindramohan Roy, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
W. A. Jenkins, Esq., D.Sc.

Minutes of the Faculty of Science

FOR THE YEAR 1934.

No. 2.

THE 3RD FEBRUARY, 1934.

Present :

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Ganesh Prasad, M.A., D.Sc.
Prof. Jnanendranath Mukherjee, D.Sc.
Satischandra Ghosh, Esq., M.A.
Nibaranchandra Ray, Esq., M.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

The Faculty met to elect its Dean for the year 1934-35.

Sir Praphullachandra Ray was voted to the Chair.

Rai Bahadur Dr. Upendranath Brahmachari proposed that Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., be elected Dean of the Faculty for the year 1934-35.

Prof. Ganesh Prasad seconded the proposal which was carried.

(Confirmed.)

P. C. RAY,
Chairman.

J. CHAKRAVORTI,
Registrar.

instruments are there. He will come back and make over the instruments in due time and he is responsible up to that time. Therefore the question of resignation will be accepted after he makes over charge of the property belonging to the University, but as Professor he has made over charge of his duties.

Mr. Jyotischandra Mitra: I would suggest that the Audit Officer be asked to check these accounts.

Mr. Charuchandra Biswas: Sir C. V. Raman belonged to the same department in which Mr. J. C. Mitra was a distinguished ornament. Sir C. V. Raman was the very first man to break all the rules which govern that department. When he took the instruments to the Science Association nobody in the University knew about it. No permission was taken from the Governing Body and he was not authorised to take them away, but the apparatus were removed and he was working with the instruments at the Science Association. When he took leave nothing was known about it in the University, and there was no question of making over charge of these instruments formally. When a person goes on leave he is supposed to make over charge of all the apparatus or other articles that remain in the place where he was working. If without the authority of any one in the University the instruments are removed to some other building, how can the University know ? Sir C. V. Raman did that, and now that the matter has come to our knowledge, instead of quarrelling over little technical points, we want to get back the instruments from him and we want to be satisfied that we get back all our instruments.

Prof. Jnanendranath Mukherjee: I understand from the agenda paper that Sir C. V. Raman has resigned his appointment and the Palit Governing Body has accepted his resignation but it has to be held over till the instruments have been received back. What is the recommendation of the Syndicate ? It simply places the recommendation of the Palit Governing Body before the Senate and says that the resignation may be accepted later on. What happens to the other recommendations of the Palit Governing Body that the whole thing be kept over till the Professor makes over charge of the instruments ? No material has been placed before the Senate to convince us

that there is any reason for such a course to be followed. Has Sir C. V. Raman approached the Syndicate or the Palit Governing Body asking that the whole thing be kept over? There is nothing on record. The post should be advertised forthwith.

Mr. Syamaprasad Mookerjee: That has already been done. He has not made over charge. I understand that he came to Calcutta to make over charge but we could not complete the verification of the list of instruments.

The Vice-Chancellor: It is quite clear that the recommendation of the Palit Governing Body has been accepted by the Syndicate and placed before the Senate. The only difficulty that the Syndicate found was that Prof. Raman was not able to make over charge because the inventory of the items of instruments must be checked and gone into and that must take a little time. As the instruments and appliances were removed, they must be checked with our Ledger book and all that the Syndicate wanted was that instead of having to come here again, we should give the Syndicate authority to accept the resignation provided that they are satisfied that the inventory is correct and that the things that belong to the University are returned by the Professor. So far as making over his professorial duties are concerned, that has been made over when he went on leave as Mr. Mitra has pointed out, otherwise Prof. D. M. Bose could not have carried on the work.

The motion was then put and carried.

15. The Vice-Chancellor moved that the University place on record their sense of appreciation of the services rendered to the University by Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L., as Palit Professor of Physics.

He said: On behalf of the Syndicate I have to place on record our sense of appreciation of the splendid work and eminent services rendered by Sir C. V. Raman to this University and to the world of Science. While working here, he made valuable contribution to Science and brought great credit to the University of Calcutta by his work as a Scientist. It has been great pleasure to me that during my term of office many honours fell upon him, his Knighthood, the LL.D. Degree, the Nobel Laureateship, and the University shone with reflected glory.

Minutes of the Faculty of Science

FOR THE YEAR 1934.

No. 3.

THE 22ND FEBRUARY, 1934.

(Special.)

Present :

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., *in the Chair.*

Brajendranath Seal Esq., M.A. (Cantab.), M.Sc.
Raj Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Prof. Prafullachandra Mitter, M.A., Ph.D.
A. Macdonald Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Lt.-Col. A. D. Stewart, C.I.E., M.B., Ch.B., F.R.C.S.E., D.P.H., D.T.M & H., I.M.S.
Sivapada Bhattacharyya, Esq., M.D.
Satischandra Ghosh, Esq., M.A.
Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
Nibaranchandra Ray, Esq., M.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S.

The Faculty met to elect Added Members for the year 1934-35.

In the absence of the Dean, Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., was voted to the Chair.

The following were the names and statement of qualifications of persons proposed for election :—

	Name.	*Proposed by—*
1.	Acharyya, Mr. Susilkumar, M.Sc.	Susilkumar Mukherjee, Esq., L.M.S., (Cal.), D.O. (Oxon.), D.O.M.S.(Lond.), F.R.C.S. (Edin.).

Statement of Qualifications.

Lecturer in Physics, Calcutta University: Added Member of the Faculty of Science for many years; sometime Secretary of the Post-Graduate Council in Science.

2. Agharkar, Prof. S.P., M.A., Ph.D. — Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Statement of Qualifications.

Professor Agharkar is a well known person. He is an M.A. of the Bombay University and Ph.D. of the University of Berlin. He holds the University Chair as the Ghose Professor of Botany and is the Head of that Department. He is the author of numerous publications on original investigation in his subject.

3. Banerjee, Mr. Surendrachandra, M.A., B.Sc., F.L.S. — Rai Jnanchandra Ghosh, Bahadur, M.A.

Statement of Qualifications.

Professor Banerjee has acted as an Added Member of the Faculty for about twenty years and has done very valuable work in the Board of Studies in Botany.

4. Bhattacharyya, Mr. Nibaranchandra, M.A., B.Sc. — Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Statement of qualifications.

Senior Professor of Physiology, Presidency College; Post-Graduate Lecturer in Physiology: has served for many years as an Added Member and rendered valuable services on the Boards of Studies in Physiology and Botany.

5. Bose, Prof. Debendramohan, M.A., B.Sc., Ph.D. — Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Statement of qualifications.

M.A., Ph.D. (Berlin); Sir Rashbehary Ghose Professor of Physics. Author of numerous original papers. Was a member of the Faculty of Science for many years.

6. Chuckerbutty, Dr. Brajendranath, D.Sc. — Satischandra Ghosh, Esq., M.A.

Statement of qualifications.

D.Sc., Lecturer, Calcutta University; a distinguished scientist.

7. Mahalanobis, Mr. Prasantachandra, M.A., B.Sc. — Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.

Minutes of the Faculty of Science

FOR THE YEAR 1934.

No 4.

THE 17TH MARCH, 1934.

(Special.)

Present:

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.,
Dean, in the Chair.

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Prof. Prafullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Prof. Ganesh Prasad M.A., D.Sc.
Satischandra Ghosh, Esq., M.A.
Nibaranchandra Ray, Esq., M.A.
Muhammad Qodrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A. Ph.D., Sc.D., F.Inst.P.
Sushilkumar Acharyya, Esq., M.Sc.
Prasantachandra Mahalanobis, Esq., M.A., B.Sc.
Prof. Sisirkumar Mitra, D.Sc.
Nibaranchandra Bhattacharyya, Esq., M.A., B.Sc.
Prof. Himadrikumar Mookerjee, D.Sc. D.I.C.
Nripendranath Sen, Esq., D.Sc.
Priyadaranjan Ray, Esq., M.A.

The Faculty met to elect members of the Boards of Studies for the year 1934-35 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Studies in Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The undermentioned gentlemen were proposed for election to the different Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Rai Upendranath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.A.S.B.
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
4. Rai Jnanchandra Ghosh, Bahadur, M.A.
5. Prof. Praphullachandra Mitter, M.A., Ph.D.
6. ,, Jnanendranath Mukherjee, D.Sc.
7. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.).
8. Nibaranchandra Ray, Esq., M.A.
9. Muhammad Qodrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., P.I.C., I.M.S.
11. Prof. Hemendrakumar Sen, M.A., D.Sc., D.I.C.
12. Priyadaranjan Ray, Esq., M.A.

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The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Senate

FOR THE YEAR 1934.

No. 7.

THE 23RD JUNE, 1934.

(Special.)

Present :

Sir Hassan Suhrawardy, Kt., O.B.E. LL.D., M.D., F.R.C.S.I., D.P.H., *Vice-Chancellor, in the Chair.*

Bhupatimohan Sen, Esq., M.A., M.Sc., *Principal, Presidency College, Calcutta.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C.

Prof. Hirambachandra Maitra, M.A., D.Litt.

Sir Daruprasad Sarvadhikary, *Samarotna, Vidyaratnakar*, Kt., C.I.E., C.B.E., M.A., LL.D.

Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G.

Prof. Satischandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Prof. Jnanranjan Banerjee, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Dr. Hiralal Haldar, M.A., Ph.D.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.).

W. C. Wordsworth, Esq., M.A.

Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M.L.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Shams-ul-Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.

Jatindranath Maitra, Esq., M.B.

Prof. Khagendranath Mitra, Rai Bahadur, M.A.

Prof. Prabhatnath Banerjee, Esq., M.A., (Cantab.), M.I.E. (Ind.).

Prof. Pramathanath Banerjee, M.A., D.Sc., Barrister-at-Law.

Johan Van Manen, Esq., C.I.E.

Jyotischandra Mitra, Esq., M.A., B.L.

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.

Captain Darbiruddin Ahmad, O.B.E., L.M.S. V.H.A.S., A.I.R.O.

Prof. Ganesh Prasad, M.A., D.Sc.

Srikumar Banerjee, Esq., M.A., B.L., Ph.D.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

certain that the great interest he has always taken in us will be continued and the relation between the University and Government will be most cordial and friendly.

I have also on your behalf to offer our felicitations to a distinguished member of the medical profession and a very senior member of the Senate on his very well-merited dignity of knighthood, Sir Upendranath Brahmachari. I do not see him here to-day. He is enjoying the salubrious climate of the hills, but wherever he is, our best wishes go to him.

We have also to offer our congratulations to Mr. R. N. Gilchrist upon whom the distinction of C.I.E. has been conferred. For a number of years he has been associated with us in our work and we have most pleasant memory of the manner in which he has worked with us as a colleague on the Senate.

The Vice-Chancellor then said that the item for the special meeting of the Senate was to consider the Budget Estimates for 1934-35 as prepared by the Board of Accounts, and he called upon Dr. Bidhanchandra Roy, President of the Board, to present the Budget Estimates for 1934-35.

Dr. Bidhanchandra Roy, in presenting the Budget Estimates for 1934-35 said:

This is the 10th successive budget that I have the honour to present to you for your consideration. We have passed through various phases of uncertainty and depression, until the University obtained the sanction of the Government for a yearly grant of Rs. 3,60,000 in March, 1932. Before we pass on to the consideration of the Budget Estimates for the ensuing year, I may point out to the members of the Senate the fact that our Budget Estimates for the present year have been exceeded by the revised estimates that are before you to-day. In the Fee Fund, for instance, the revised estimates are Rs. 2,30,000 more than the Budget Estimates. Somehow and from somewhere 3,000 more students appeared for the Matriculation Examination, and 1,200 students more than we estimated for, appeared at the I.A. and I.Sc. Examinations.

The Syndicate also directed that new books for the students should be selected and published in the course of the year and they were sold, with the result that while we estimate for total receipt from the sale proceeds of a sum of Rs. 1,50,000 the actuals came up to 2,32,000.

The University of Calcutta & Acharya P C Ray 1906-1944

year for the equipment of shops and laboratories of these Professors. Therefore, the time has come when the Senate should realise the position. If it be necessary the investments should be made other than in Government bonds as provided for in the Trust Deed, so as to augment the receipts. The Trust Deed of the Khaira Fund provides as follows: "provided that if the Senate should deem it beneficial to the purpose of the endowment as hereinafter declared, they shall be at liberty to invest the proceeds of any part thereof in any form of investment authorised by law or in the purchase or mortgage of landed property within the municipal limits of Calcutta and its suburbs." This gives an opportunity for the University to augment the receipts under the Fund. If 6 lacs be invested in mortgages, we can easily get a return of 7 per cent. or about 42 thousands of rupees.

This will mean that the fund will become self-supporting.

With regard to the amendments which have been proposed by the Syndicate, all I need say at this stage is that when these amendments were proposed, the Board of Accounts had already prepared their Budget Estimates and there was no opportunity for them to consider these amendments in detail. The total amount that will have to be taken away from the closing balance, if all these amendments are carried, is about Rs 4,000. At page 2 of the agenda there are two items, items Nos. 7 and 9, for which a certain explanation is necessary. In these two items it is proposed to substitute higher figures for the lower figures budgetted for. I would only draw your attention to the fact that the liabilities under these two heads have already been incurred, the money had been provided for in the Budget Estimates for 1933-34 and, therefore, there will be no difficulty and we shall not have to draw upon the closing balance. Leaving these two items out of account, the other items will mean only an increase of Rs. 4,000 which will have to be taken out of the closing balance.

With these words I move that the Budget Estimates as prepared by the Board of Accounts be adopted.

Dr. Srikumar Banerjee seconded the motion.

Mr. Syamaprasad Mookerjee moved that the Budget Estimates for 1934-35, as prepared by the Board of

Accounts, be adopted subject to the following modifications:—

	Page.	Service-head.		Remarks.
(1)	4	I—6	...	Substitute 85,118 for 84,758.
(2)	6	V—2	...	Substitute 7,920 for 7,860.
(3)	7	V—4	...	Substitute 9,500 for 9,000 and add a note in the remarks column "includes a non-recurring grant of Rs. 500."
(1)	7	VI—1	...	Substitute 89,990 for 89,930.
(5)	8	VIII—1	...	Substitute 8,000 for 5,000 and add a note against (a) in the remarks col. "Rs. 13,000 is required for renewing the roofs of the Senate House and the Darbhanga Building, Rs. 10,000 of which will come from the Quinquennial Repairs Fund on page 35."
(6)	8	IX—7	...	Substitute 16,400 for 13,500 and add a note in the remarks col. against (f) "Rs. 10,500 for electric bills. ,, 2,000 for petty repairs and bulbs. ,, 500 for new fans. ,, 1,000 for re-wiring of top-floor electric installation.

	Page.	Service-head.	Remarks.
			Rs. 1,000 for re-wiring of Senate House electric installation.
			,, 1,400 for Loud Speaker system in the Senate House."
(7)	9	X—2 ...	Substitute 2,850 for 1,250 and add a note in the remarks column "includes unspent grant of Rs. 1,600 of 1933-34."
(8)	17	Office—2 ...	Substitute Rs. 22,142 for 22,082.
(9)	18	Miscellaneous. 12	Substitute Rs. 20,500 for 5,500 and add a note against (8) in the remarks column "includes unspent grant of Rs. 15,000 of 1933-34."
(10)	35	(31) Sir P. C. Ray Fellowship Fund.	Add to the expenditure side "stipend 1 (50).....600."
(11)	60	V—Reserve Fund.	Add to the income side "Government-grant for the Departments of Physiology and Geology for 1932-33 and 1933-34 Rs. 39,430."
(12)	60	V—Reserve Fund.	Add to the expenditure side "Contribution to Rowing Club Fund, Rs. 22,000."

In moving he said: I may say that my task has been made easier on account of the statement made by the President of the Board of Accounts that he is going to accept the amendments which have been proposed by the Syndicate.

repaired, these repairs having been rendered necessary on account of the recent earthquake. The Executive Engineer has sent us two reminders and the estimates have already been accepted by the Works Committee. Then with regard to the Darbhanga Building : the top floor, as you know, is the place where we hold our annual examinations. It accommodates some 750 students and the condition of that hall has been far from satisfactory. The hall accommodates a large number of examinees, and for that reason we consulted several experts of Messrs. Martin & Co. and after a good deal of discussion we accepted estimates for certain repairs which will render the place more habitable in future.

Then with regard to amendment No. 6 there are certain readjustments. Certain figures which were proposed by the Departments had been reduced by the Syndicate and in certain items the figures have been increased. The net increase is Rs. 2,900. Rs 1,000 will go for the purpose of paying outstanding bills, Rs. 2,000 for petty repairs and bulbs, Rs. 500 for new fans, Rs. 1,000 for rewiring of Senate House which is necessary in view of the report which we have received from experts, and Rs. 1,400 for Loud Speaker system in the Senate House which was a long felt want. The Syndicate decided to furnish the Senate House with the Loud Speaker system which would cost Rs. 1,400 in all.

Amendment No. 7, as Dr. Roy has explained, does not involve any new expenditure, but the money which was provided for in this year's Budget and included in the Revised Estimates has not been spent and is proposed to be re-allotted for the next year. So I need not offer any special explanation with regard to this.

Amendment No. 8 is merely a proposal for an increase of Rs. 60 a year.

The next amendment No. 9 also, as explained by Dr. Roy, does not involve any new expenditure. This is meant for a new extension in the Science College. The amount has been budgeted for but that has not been spent in the financial year now closed.

As regards amendment No. 10, it is not a burden on the Fee Fund. It comes from the Sir P. C. Ray Fellowship

Minutes of the Senate

FOR THE YEAR, 1934.

No. 2.

THE 28TH JULY, 1934

Present :

Sir Hassan Suhrawardy, Kt., O.B.E., LL.D., M.D., F.R.C.S.I., D.P.H., *Vice-Chancellor, in the Chair.*

The Hon'ble Mr. Justice Manmathanath Mukherjee, M.A., B.L., *Chief Justice of Bengal (Actg.).*

J. M. Bottomley, Esq., B.A. (Oxon.), M.L.C., *Secretary to the Government of Bengal, Education Department (Actg.)*

Apurvakumar Chanda, Esq., M.A. (Oxon.), *Director of Public Instruction, Bengal (Offg.).*

Bhupatimohan Sen, Esq., *Principal, Presidency College, Calcutta.*

Prof. Herambachandra Maitra, M.A., D.Litt.

Sir Devaprasad Sarvadhikary, *Surivatna, Vidyaratnakar*, Kt., C.I.E., C.B.E., M.A., LL.D.

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B.

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Rai Lalitmohan Chatterjee, Bahadur, M.A.

Prof. Jnanranjan Banerjea, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Dr. Hiralal Haldar, M.A., Ph.D.

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L., M.L.A.

Prof. D. R. Bhandarkar, M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).

Prof. Khagendranath Mitra, Rai Bahadur, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Surendranath Mallik, Esq., C.I.E., M.A., B.L.

Jyotischandra Mitra, Esq., M.A., B.L.

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

318.4
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1935

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1935.

No. 1.

THE 26TH JANUARY, 1935.

Present:

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C., *Vice-Chancellor, in the Chair.*

J. M. Bottomley, Esq., B.A. (Oxon.), M.L.C., *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A., M.Sc., *Principal Presidency College, Calcutta.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).

Prof. Hirambachandra Maitra, M.A., D.Litt.

Sir Devaprasad Sarvadhikary, Sastiratna, Vidyaratnakar, Kt., C.I.E., C.B.E., M.A., LL.D.

Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F. (Bengal).

Prof. Sabodhchandra Mahalanobis, D.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Prof. Jnanranjan Banerjea, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Crohan, S.J.

Dr. Hiralal Haldar, M.A., Ph.D.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

W. C. Wordsworth, Esq., M.A.

Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Prafullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L.

R. N. Gilchrist, Esq., C.I.E., M.A., M.L.C.

A. H. Harley, Esq., M.A.

Harendracoomar Mookerjee, Esq., M.A., Ph.D

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).

The Senate first proceeded to elect two representatives on the Syndicate who were either Heads of, or Professors in, colleges affiliated to this University.

The Vice-Chancellor: Three members are eligible for election under this category, *viz.*, Mr. Bhupatimohan Sen, Prof. W. S. Urquhart and Dr. Susilkumar Mukherjee. Dr. Susilkumar Mukherjee has desired to withdraw from the contest in the first ballot. Therefore I declare the two members left, Mr. Bhupatimohan Sen and Prof. W. S. Urquhart duly elected.

A ballot was then taken among the remaining three candidates for the other two seats, and the votes recorded were as follows:—

Dr. Susilkumar Mukherjee	... 63
Mr. Charuchandra Biswas	... 51
Dr. Jatindranath Maitra	... 40

The Vice-Chancellor accordingly declared Mr. Charuchandra Biswas and Dr. Susilkumar Mukherjee as duly elected representatives of the Senate on the Syndicate for the year 1935-36.

The following four members were therefore declared to be duly elected representatives of the Senate on the Syndicate for the year 1935-36:—

1. Bhupatimohan Sen, Esq., M.A., M.Sc.
2. Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
3. Charuchandra Biswas, Esq., C.I.E., M.A., B.L.
4. Susilkumar Mukherjee, Esq., L.M.S. (Cal.). D.O. (Oxon.). D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

8. The Senate then proceeded to constitute the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1935-36.

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties, as also the additional names proposed by Members of the Senate under Section 2, Chapter III of the Regulations, was previously circulated to the Members of the Senate.

Mr. Nibaranchandra Ray and Prof. Surendranath Sen were requested to act as Tellers in connection with the voting for election of members to the Faculty of Arts; Mr. Mukundabehari Mallick and Mr. A. A. Abdul Hafiz were requested to act as Tellers in connection with the voting for election of members to the Faculty of Science, and Prof.

59. Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A., M.L.C.
60. Rev. Fr. M. Vermeire, S.J.
61. Prof. Surendranath Sen, M.A., Ph.D., B.Lit. (Oxon.).
62. A. F. Rahman, Esq., M.A. (Oxon.), M.L.C.

FACULTY OF SCIENCE.

1. Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).
3. Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G., F.S.M.F. (Bengal).
4. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F. (Bengal).
5. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
6. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7. Rai Jnanchandra Ghosh, Bahadur, M.A.
8. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
9. Prof. Praphullachandra Mitter, M.A., Ph.D.
10. Sir Hassan Suhrawardy, Kt., O.B.E., M.D., LL.D., D.Sc., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).
11. Rev. A. E. Brown, C.I.E., M.A., B.Sc.
12. Jatindranath Maitra, Esq., M.B.
13. A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
14. Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., D.L., F.R.S., N.L.
15. Jyotischandra Mitra, Esq., M.A., B.L.
16. Captain Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.
17. Lt.-Col. A. D. Stewart, C.I.E., M.B., Ch.B., F.R.C.S.E., D.P.H., D.T.M. & H., I.M.S., F.S.M.F. (Bengal).
18. R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
19. Prof. Jnanendranath Mukherjee, D.Sc.
20. D. E. Roberts, Esq., M.Sc.
21. Satischandra Ghosh, Esq., M.A.
22. Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).

Palit Trusts, the award of an additional Research Scholarship be sanctioned for the period from 10th December, 1934, till the end of the current session, *i.e.*, 31st May, 1935.

N.B.—The observations of the Board of Accounts on the subject are as follows :—

"That the additional scholarship be sanctioned with the approval of the Senate."

Mr. Nibaranchandra Ray seconded the motion which was carried.

23. **Mr. Pramathanath Banerjee** moved that the sanction of Rs. 1,500 for payment to Mr. Debkumar Ray, B.Sc., to enable him to complete his course in Aeronautics be approved.

The amount is to be met out of the Sir Praphullachandra Ray Fellowship Fund.

Note 1.—The following are the observations of the Board of Accounts on the subject :—

'*Resolved*—That the Syndicate be informed that the amount may be met from the closing balance of the Sir P. C. Ray Fellowship Fund.'

Note 2.—The amount will be paid subject to the receipt of favourable report on the Scholar's work from the Secretary, Bengal Flying Club.

Note 3.—Sir Praphullachandra Ray, Kt., C.I.E., etc., is agreeable to this proposal.

He said : So far as Sir P. C. Ray is concerned, he is agreeable to the proposal. I believe that this is the first occasion when a Bengali gentleman of the type of Mr. Ray has acquired this qualification. It is a matter of great gratification to all of us that our students are being attracted to this untrodden field.

Mr. Satischandra Ghosh seconded the motion which was carried.

24. **Mr. Charuchandra Biswas** moved that, as recommended by Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., a sum of Rs. 3,000 be granted to the Hindu Academy, Daulatpur, out of the Sir Praphullachandra Ray Research Fellowship Fund.

He said : There is a sum of Rs. 10,000 available in the Fund. We have the concurrence of the Donor and the University authorities, so there is no difficulty in making the grant.

Mr. Satischandra Ghosh seconded the motion.

Sir Devaprasad Sarvadhikary: It is not with a view to opposing or commenting on this proposal but more with a view to eliciting a little more information that I beg to ask the mover of the resolution to state the reason for this recommendation. Sir P. C. Ray is always generous and the fact that Daulatpur Hindu Academy is in his native district does not make much difference. We have never understood correctly the object of the fund. To say that Sir P. C. Ray concurs does not carry the matter further. Much is being done which is not within the purview of the object of the fund. Daulatpur Hindu Academy is one of those magnificent institutions which have done much for the country in the past and much more is expected of it. The reason why this fund is to be encroached upon for whatever benefaction the college has been in need of, ought to be made a little more explicit. I repeat that it is not with a view to object to or for criticising, but with a view to eliciting information as to how a fund like this permanently created for research purposes and purposes like those indicated in the rules, can be utilised for other purposes or can be drawn upon in this way that I am asking this question

Mr. Charuchandra Biswas: I am glad that Sir Devaprasad Sarvadhikary has raised this question. I may tell him that this point had struck me as well. The origin of this proposal is a request from Sir P. C. Ray himself. I will read to you his letter (Reads).

If you look at page 215 of the Calendar, you will find that this fund has been created out of the salary payable to Sir P. C. Ray as Palit Professor. When Sir P. C. Ray completed his 60th year in 1922, the University requested him to continue his services for a further period and he agreed on condition that he would not draw the salary. He suggested that his salary might be accumulated to form a fund which might be devoted to the furtherance of researches in the Department of Chemistry or for such other purposes as might be deemed fit. A scheme was drawn up later on for utilising the fund mainly for the purpose of developing the department of Inorganic Chemistry in the Science College. I venture to think that this does not stand in the way of the fund being applied for any other purpose which may be approved of by the Donor,

the Syndicate and the Senate. It was really a gift from Sir P. C. Ray to the University. The University accepted the gift and agreed to utilise the fund in the way suggested by Sir P. C. Ray. The expression 'deemed fit' means 'deemed fit by the University.' Even if these words were not there, I submit that if there is concurrence there is no difficulty. There is no deed of trust, there is no question of modifying any registered document. If the donor and the donee both agree, I do not suppose that there will be any difficulty in applying the fund in any way that these two parties might approve of. This is why Sir P. C. Ray suggests in his letter that Rs. 3,000 may be given to the Daulatpur Hindu Academy with the concurrence of the Syndicate and the Senate and if they say no, the fund cannot be diverted to that purpose. It is for that purpose precisely that this matter has been brought up before the Senate for their approval. I venture to think that, having regard to the wishes of the Donor, the Senate will not stand in the way.

The Vice-Chancellor: I would just add one word to the explanation given by the mover of the resolution. If the expenditure is met after fulfilling the different objects which the Donor had in view when he created the fund, there cannot be any objection to the proposal. There is a balance of about Rs. 10,000 in the fund, so there is no question of the University doing away with the objects for which the fund was created. Secondly, so far as the position of this college is concerned it was a matter of serious investigation by the Syndicate. The Syndicate appointed a special committee consisting of the University Inspector of Colleges, Prof. Khagendranath Mitra and Mr. Pramathanath Banerjee. They discussed the affairs of the college with the founder, Mr. Brajalal Sastri, as also with the representatives of the College Council and prepared a scheme which we thought would be in the best interest of the institution. If the Senate makes this grant to-day it will help the college to carry on the scheme for the permanent betterment of the institution.

The resolution was then put and carried *nem con.*

25. The Vice-Chancellor: Before Dr. Roy moves the next resolution, I have to inform you that the Syndicate at yesterday's meeting had recommended that the remuneration

Minutes of the Faculty of Science.

FOR THE YEAR 1935.

No. 2.

THE 23RD MARCH, 1935.

(Special.)

Present :

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal), *Dean, in the Chair.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D. Ph.D., F.A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
,, Praphullachandra Mitter M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Prof. Jnanendranath Mukherjee, D.Sc.
Satischandra Ghosh, Esq., M.A
Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.).
Sasthamar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Nibaranchandra Ray, Esq., M.A
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Rev. Fr. M. Vermeire, S.J.
Prof. Nikhilranjan Sen, D.Sc.
Sunilkumar Acharyya, Esq., M.Sc.
Niharendranath Bhattacharyya, Esq., M.A., B.Sc.
Sushamay Dutta, Esq., D.Sc.
Dwarkanath Mukhopadhyay, Esq., M.Sc.
Prof. Himadrikumar Mukherjee, D.Sc. (Lond.), D.I.C.
Prof. Hemendrakumar Sen, D.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1935-36 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Studies in Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not

more than three members for the Board of Studies in Teaching.

The undermentioned gentlemen had been proposed for election to the different Boards of Studies under which their names appear:—

Board of Studies in Chemistry.

1. Bhupatimohan Sen, Esq., M.A., M.Sc.
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).
3. Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G., F.S.M.F (Bengal).
4. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F S.M.F. (Bengal).
5. Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
6. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
7. Rai Jnanchandra Ghosh, Bahadur, M.A.
8. Professor Praphullachandra Mitter, M.A., Ph.D.
9. ,, Jnanendranath Mukherji, D.Sc.
10. Satischandra Ghosh, Esq., M.A.
11. Sunilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
12. Nibaranchandra Ray, Esq., M.A.
13. Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
14. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
15. Rev. Father M. Vermeire, S.J.
16. Professor Debendramohan Bose, M.A., B.Sc., Ph.D.
17. Snehamay Dutt, Esq., D.Sc.
18. Dwarkanath Mukhopadhyay, Esq., M.Sc.
19. Professor Hemendrakumar Sen, D.Sc.

Board of Studies in Experimental and Mathematical Physics.

1. Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
2. Rai Jnanchandra Ghosh, Bahadur, M.A.
3. Satischandra Ghosh, Esq., M.A.
4. W. A. Jenkins, Esq., D.Sc.
5. Nibaranchandra Ray, Esq., M.A.

8. Nibaranchandra Ray, Esq., M.A.
9. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M.: D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
11. Dwarkanath Mukhopadhyay, Esq., M.Sc.
12. Professor Hemendrakumar Sen, D.Sc.

As the number of gentlemen proposed did not exceed the number to be elected, the Dean declared that all the gentlemen proposed had been duly elected members of the Board of Studies in Chemistry for the year 1935-36.

(Confirmed.)

NILRATAN SIRCAR, *Dean.* J. CHAKRAVORTI, *Registrar.*

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Minutes of the Senate

FOR THE YEAR 1935.

No. 6.

THE 1ST JUNE, 1935.

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.,
Vice-Chancellor, in the Chair.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).
Prof. Herambachandra Maitra, M.A., D.Litt.
Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G., F.S.M.F (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F. (Bengal).
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Jnanranjan Banerjee, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Dr. Hiralal Haldar, M.A. Ph.D.
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
Prof. W. S. Urquhart. M.A., D.L., D.Litt., D.D.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L.
Dr. Harendracoomar Mookerjee, M.A., Ph.D.
Pramathanath Banerjee, Esq , M.A., B.L , Barrister-at-Law.
Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).
Shams-ul-Ulama Hidayet Hussain, Khan Bahadur, F.A.S.B.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Surendranath Mallik, Esq., C.I.E., M.A., B.L.
Jyotischandra Mitra, Esq., M.A., B.L.
Khan Bahadur Tasadduq Ahmad, B.A , B.T., M.Ed.
Captain Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.
A. K. Fazl-ul-Huq, Esq., M.A., B.L., M.L.A.
Srikumar Banerjee, Esq., M.A., B.L., Ph.D.
Satischandra Ghosh, Esq., M.A.

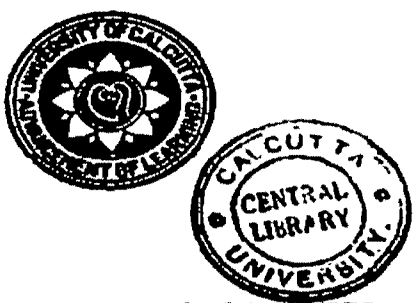
University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1936



CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1936.

No. 2.

THE 25TH JANUARY, 1936.

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C., *Vice-Chancellor, in the Chair.*

The Hon'ble Khan Bahadur M. Azizul-Haque, B.L., Minister for Education, Bengal.

W. A. Jenkins, Esq., D.Sc., Director of Public Instruction, Bengal (Offg.).

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D, D.C.L., M.L.C., F.M.S.F. (Bengal).

Herambachandra Maitra, Esq., M.A., D.Litt.

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F. (Bengal).

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Prof. Jnanranjan Banerjea, M.A., B.L.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Crohan, S.J.

Hiralal Haldar, Esq., M.A., Ph.D.

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L.

R. N. Gilchrist, Esq., C.I.E., M.A., M.L.C.

Prof. D. R. Bhandarkar, M.A., Ph.D.

A. H. Harley, Esq., M.A.

Pramathanath Banerjea, Esq., M.A., B.L., Barrister-at-Law.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rev. A. E. Brown, C.I.E., M.A. (Cantab.), B.Sc. (Lond.).

Shams-ul-Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).

Surendranath Mallik, Esq., C.I.E., M.A., B.L.

Jyotischandra Mitra, Esq., M.A., B.L.
Khan Bahadur Tasaddaq Ahmad, B.A., B.T., M.Ed.
Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.
A. K. Fazl-ul-Huq, Esq., M.A., B.L., M.L.A.
R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
D. E. Roberts, Esq., M.Sc.
Satischandra Ghosh, Esq., M.A.
Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
M. N. Bose, Esq., M.B., C.M. (Edin.).
Maulvi A. F. M. Abdul Kadir, M.A.
Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Major-General Dwarka Prasad Goil, M.B., Ch.B., F.R.C.S.E., I.M.S.
Khan Bahadur Maulvi Muhammad Musa, M.A.
Lt.-Col. E. W. O'G. Kirwan, M.B., F.R.C.S.I., I.M.S.
Khan Bahadur Maulvi Alfas-ud-din Ahmad, M.A.
Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
The Hon'ble Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
Mahendranath Goburn, Esq., M.L.C.
Khan Bahadur Tafazzal Ahmad, B.E.
Birendranath Ghosh, Esq., F.R.F.P.&S. (Glas.).
Huseyn Shaheed Suhrawardy, Esq., M.A., B.C.L. (Oxon.), B.Sc., Barrister-at-Law, M.L.C.
Abu Ahmad Abdul Hafiz, Esq., M.A., B.L.
Lt.-Col. P. Fleming Gow, D.S.O., M.A., M.B., Ch.B., F.R.C.S.(E.), D.P.H., F.C.O.G., I.M.S.
Jitendralal Banerjee, Esq., M.A., B.L., M.L.C.
Prof. Mohammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Mrs. A. N. Chaudhuri, B.A. (Cantab.).
Mukundabehari Mallik, Esq., M.A., B.L., M.L.C.
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A., M.L.C.
Rev. Father M. Varmaire, S.J.
H. A. Stark, Esq., B.A.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Lt.-Col. R. N. Chopra, C.I.E., M.A., M.D., I.M.S.
Girindrashekhar Bose Esq., M.B., D.Sc.

The University of Calcutta & Acharya P.C Ray 1906-1944

Jitendramohan Sen, Esq., B.Sc. (Cal.), M.D. (Leeds).
Ratanmohan Chatterjee, Esq., B.L.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

The Vice-Chancellor: Before we proceed to the ordinary business of the day it is my painful duty to bring to your notice the death in England of a former colleague of ours, Sir John Woodroffe. Sir John was a member of the Senate for several years and also one of our distinguished Tagore Professors of Law. For many years he was connected with the Calcutta High Court and he adorned the Bench for nearly 20 years. Upon all these spheres of activity he brought to bear his outstanding ability, his great learning and his untiring labours. Valuable though undoubtedly his work was as a Judge and an exponent of legal principles, he is entitled to our permanent remembrance and gratitude for the devotion and thoroughness with which he studied and propounded some aspects of Indian culture and civilisation, for which he entertained a genuine and passionate love. A man of wide culture and broad imagination and sympathies, a true gentleman, he will always be remembered as a sincere friend of Indian aspirations. As members of a great seat of learning, we pay our tribute of respect to the memory of Sir John Woodroffe as one who, though a foreigner, truly understood and expounded the Spirit and Mind of India which he served with unexampled loyalty and devotion.

I propose that this House do record a resolution of condolence at his death and the same be carried, all members standing in solemn silence.

The resolution was carried with due solemnity, all standing.

1. **Mr. Pramathanath Banerjee** moved that the term of appointment of Dr. Harendracoomar Mookerjee, M.A., Ph.D., as University Inspector of Colleges, be extended up to 30th September, 1936.

Note.—The present term of Dr. Mookerjee expires on the 30th January, 1936.

He said: No words of commendation are necessary from me for moving this resolution for the acceptance of the House. We know Dr. Mookerjee very well and we

The University of Calcutta & Acharya P.C.Ray 1906-1944

3. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

4. Rev. Father M. Vermeire, S.J.

5. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine* and *Engineering* for the year 1936-37.

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties as also the *additional names* proposed by Members of the Senate, under Section 2, Chapter III of the Regulations, was previously circulated.

After the names of the persons recommended and proposed for election to the different Faculties had been voted on, Faculty by Faculty, the Vice-Chancellor declared that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1936-37 had been constituted as follows:—

FACULTY OF ARTS.

Principal, Presidency College, Calcutta.
Herambachandra Maitra, Esq., M.A., D.Litt.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Prof. Jnanranjan Banerjea, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohan, S.J.
Hiralal Haldar, Esq., M.A., Ph.D.
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
W. C. Wordsworth, Esq., M.A., M.L.C.
Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L.
R. N. Gilchrist, Esq., C.I.E., M.A., M.L.C.
Prof. D. R. Bhandarkar, M.A., Ph.D.
A. H. Harley, Esq., M.A.
Harendracoomar Mookerjea, Esq., M.A., Ph.D.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
Shams-ul-Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Johan Van Manen, Esq., C.I.E.
Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed
A. K. Fazl-ul Huq, Esq., M.A., B.L., M.L.A.
Sir S. Radhakrishnan, Kt., M.A., D.Litt.
A. F. M. Abdul Ali, Esq., M.A., F.R.S.L.
Satischandra Ghosh, Esq., M.A.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
Maulvi A. F. M. Abdul Kadir, M.A.
Rev. J. N. Rawson, B.Sc., B.D.
Mrs. P. K. Ray, M.B.E.
Khan Bahadur Maulvi Muhammad Maula Bakah, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
The Hon'ble Maharaja Sir Manmathanath Raychaudhuri, Kt., M.L.C.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A.
Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
The Hon'ble Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Naliniranjan Sarker, Esq.
Humayen Shaheed Suhrawardy, Esq., M.A., B.Sc., B.C.L. (Oxon.), Barrister-at-Law, M.L.C.
Khan Bahadur Abdullah Abu Sayied, M.A.
Jitendralal Banerjea, Esq., M.A., B.L., M.L.C.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D.
Mrs. A. N. Chaudhuri, B.A. (Cantab.).
Mukundabehari Mallik, Esq., M.A., B.L., M.L.C.
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A., M.L.C.
Rev. Fr M. Vermeire, S.J.
Prof. Surendranath Sen, M.A., Ph.D., B.Litt. (Oxon.).
A. F. Rahman, Esq., M.A. (Oxon.), M.L.C.
H. A. Stark, Esq., B.A.
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.)
Jitendramohan Sen, Esq., B.Sc., M Ed. (Leeds).

FACULTY OF SCIENCE.

Principal, Presidency College, Calcutta.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).
Sir Kedarnath Das, Kt., C.I.E., M.D., F.C.O.G., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Prof. Praphullachandra Mitter, M.A., Ph.D.
Rev. A. E. Brown, C.I.E., M.A., B.Sc.
A. Macdonald, Esq., M.A., B.Sc., A.M.I.E. (Ind.).
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Jnanendranath Mukherjee, D.Sc.
D. E. Roberts, Esq., M.Sc.
Satischandra Ghosh, Esq., M.A.
Jotindramohan Roy, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.).

The undermentioned gentlemen were proposed for election :—

	Name.	Proposed by—
1.	Acharyya, Mr. Sunilkumar M.Sc.	Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Statement of qualifications.

Lecturer in Physics, Calcutta University.

2.	Banerjee, Mr. Surendra-chandra, M.A., B.Sc., F.L.S.	Rai Jnanchandra Ghosh, Bahadur, M.A.

Statement of qualifications.

Senior Professor of Botany, Presidency College. Mr. Banerjee has acted as an Added Member of the Faculty for several years and has done exceedingly good work in the Board of Studies in Botany.

3.	Bhattacharyya, Mr. Nibaranchandra, M.A., B.Sc.	Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Statement of qualifications.

Senior Professor of Physiology, Presidency College. Has served for many years as an Added Member and rendered valuable help on the Boards of Studies in Physiology and Botany.

4.	Biswas, Mr. Saratlal, M.Sc.	Girindrasekhar Bose, Esq., D.Sc., M.B.

Statement of qualifications.

Head of the Department of Geology, Calcutta University.

5.	Bose, Prof. Debendra-mohan, M.A., B.Sc., Ph.D.	Sir Prafhullachandra Ray, Kt., C.I.E., M.A., D.Sc., Ph.D., F.C.S.

Statement of qualifications.

Sir Tarakanath Palit Professor of Physics. Was a member of the Senate and of the Faculty of Science for many years.

6.	Chuckerbutti, Dr. Bra-jendranath, D.Sc.	Satischandra Ghosh, Esq., M.A.

Minutes of the Faculty of Science

FOR THE YEAR 1936.

No. 3.

THE 14TH MARCH, 1936

(Special.)

Present :

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal), *Dean, in the Chair.*

Rai Jnanchandra Ghosh, Bahadur M.A.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Rev. A. E. Brown, C.I.E., M.A., B.Sc.

Satischandra Ghosh, Esq., M.A.

Niharanchandra Ray, Esq., M.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Rev. Father M. Vermeire, S.J.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds).

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).

Lodlimohan Mitra, Esq., M.Sc.

Prasantachandra Mahalanobis, Esq., M.A. (Cantab.).

Prof. Nikhilranjan Sen, D.Sc., Ph.D.

Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

Niharanchandra Bhattacharyya, Esq., M.A., B.Sc.

Sushilkumar Acharyya, Esq., M.Sc.

Prof. Bidhubhushan Ray, Esq., D.Sc.

Saratlal Biswas, Esq., M.Sc.

The Dean: Gentlemen, before proceeding to the actual business of the meeting, I have to perform a melancholy duty. I have to bring to your notice that Sir Kedarnath Das, one of our most distinguished members, died yesterday at 6 P.M. He was a member of this University and was attached to the Faculties of Science and Medicine. He was also a member of the Syndicate. He was a Professor of one of the affiliated Medical Colleges of Bengal and was the Principal of that college for the last 13 years. As a medical man he was one of the most distinguished and

24

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Board of Studies in Chemistry.

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.A.S.B., F.S.M.F (Bengal).

***

2. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
3. Rai Jnanchandra Ghosh, Bahadur, M.A.
4. Prof. Praphullachandra Mitter, M.A., Ph.D.
5. ,, Jnanendranath Mukherjee, D.Sc.
6. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
7. Nibaranchandra Ray, Esq., M.A.
8. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
9. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., L.M.S., F.S.M.F. (Bengal).
10. Ladlimohan Mitra, Esq., M.Sc.
11. Prof. Hemendrakumar Sen, D.Sc.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1937

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1937.

No. 1

THE 23RD JANUARY, 1937.

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C., *Vice-Chancellor, in the Chair.*

J. M. Bottomley, Esq. M.A. (Oxon.), *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College, Calcutta.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., M.L.C., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Birajmohan Majumdar, Esq., M.A., B.L.

Rev. Father F. X. Croban, S.J.

Hiralal Haldar, Esq., M.A., Ph.D.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.

W. C. Wordsworth, Esq., M.A., M.L.C.

Prof. W. S. Urquhart, M.A., D.Lit., D.D.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L.

R. N. Gilchrist, Esq., C.I.E., M.A., M.L.C.

A. H. Harley, Esq., M.A.

Lt.-Col. Sir Hassan Suhrawardy, Kt., O.B.E., V.H.S., LL.D. (Lond.), D.Sc. (Cal.), M.D., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).

Ramaprasad Mookerjee, Esq., M.A., B.L.

Shams-ul-Ulama Hidayet Husain, Khan Bahadur, F.A.S.B.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

Jyotischandra Mitra, Esq., M.A., B.L.

Major Dabiruddin Ahmed, O.B.E., L.M.S., V.H.A.S., A.I.R.O.

R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.
Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.
Satiscandra Ghosh, Esq., M.A.
Jotindramohan Roy, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.).
Sushkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
Lt.-Col. E. W. O'G Kirwan, M.B., F.R.C.S.I., I.M.S.
Khan Bahadur Maulvi Alfaz ud din Ahmad, M.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
Khan Bahadur Tafazzal Ahmed, B.E.
Birendranath Ghosh, Esq., F.R.F.P. & S. (Glas.).
Nalinjranjan Sarker, Esq.
Abu Ahmad Abdul Hafiz, Esq., M.A., B.L.
Lt.-Col. P. Fleming Gow, D.S.O., M.A., M.B., Ch.B., F.R.C.S.E., D.P.H., F.C.O.G., I.M.S.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Mrs. A. N. Chaudhuri, M.A. (Cantab.).
Mukundabehari Mallik, Esq., M.A., B.L., M.L.C.
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A., M.L.C.
H. A. Stark, Esq., B.A.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Bt.-Col. R. N. Chopra, C.I.E., K.H.P., M.A., M.D. (Cantab.), M.R.C.P. (Lond.), I.M.S.
Jitendramohan Sen, Esq., B.Sc. (Cal.), M.Ed. (Leeds).
Satyendranath Roy, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).
The Hon'ble Mr. Justice Rupendrakumar Mitter, M.Sc., M.L.
C. F. Ball, Esq., M.A.
Rev. Father A. Verstraeten, S.J.

1. Mr. Charuchandra Biswas moved that Mr. Satischandra Ghosh, M.A., be appointed University Inspector of Colleges for a period of ten years with effect from the 1st April, 1937, on the terms and conditions attached to the post, his salary being fixed at Rs. 800 per month in the grade Rs. 750-$\frac{50}{0}$-1,000.

(Statement showing the names of the persons with their qualifications, who applied for the post, was previously circulated.)

contest. I, therefore, declare Mr. Charuchandra Biswas and Dr. W. S. Urquhart duly elected.

The following four members were, therefore, declared to be duly elected representatives of the Senate on the Syndicate for the year 1937-38:—

1. Bhupatimohan Sen, Esq., M.A., M.Sc.
2. Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
3. Charuchandra Biswas, Esq., C.I.E., M.A., B.L.
4. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon)., D.O.M.S. (Lond.), F.R.C.S. (Edin)., F.S.M.F. (Bengal).

3. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine and Engineering* for the year 1937-38.

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties as also the additional names, proposed by the Members of the Senate, under Section 2, Chapter III of the Regulations, were previously circulated.

After the names of the persons recommended and proposed for election to the different Faculties had been voted on, Faculty by Faculty, the Vice-Chancellor declared on the scrutiny of the votes received, that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1937-38 had been constituted as follows:—

FACULTY OF ARTS

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Heramlachandra Maitra, Esq., M.A., D.Litt.
Prof. Satyendrachandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray Kt., C.I.E., D.Sc., Ph.D., F.C.S.
Raj Jnanendrachandra Ghosh, Bahadur M.A.
Prof. Jnanranjan Banerjea, M.A., B.L.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Crohen, S.J.
Hiralal Haldar, Esq. M.A., Ph.D.
The Hon'ble Mr. Justice Dwarkanath Mitter, M.A., D.L.
W. C. Wordsworth, Esq., M.A., M.L.C.
Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.
Sir S. H. Zahid Suhrawardy Kt., M.A., B.L., Barrister-at-Law.
Prof. Prafullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L.
Charuchandra Biswas, Esq., C.I.E., M.A., B.L.
R. N. Gilchrist, Esq., C.I.E., M.A., M.L.C.
D. R. Bhandarkar, Esq., M.A., Ph.D.
A. H. Harley, Esq., M.A.
Prof. Harendrakumar Mookerjee, M.A., Ph.D.

Minutes of the Senate

FOR THE YRAR 1937.

No. 2.

THE 17TH FEBRUARY, 1937.

Present :

His Excellency the Rt. Hon'ble Sir John Anderson, P. C., G.C.B., G.C.I.E., D.L., *Chancellor, in the Chair.*

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.C., *Vice-Chancellor.*

Ex-Officio Fellows.

J. M. Bottomley, Esq., M.A. (Oxon.), M.L.C., *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College.*

Ordinary Fellows.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal), M.L.C.

Prof. Subodhchandra Mahalanobis, D.Sc., F.R.S.E.

Prof. Jnanranjan Banerjea, M.A., B.L.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Prof. W. S. Urquhart, M.A., D.L., D.Litt., D.D.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Charuchandra Biswas, Esq., C.I.E., M.A., B.L.

A. H. Harley, Esq., M.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Shams-ul-Ulama Hidayet Hussain, Khan Bahadur, F.R.A.S.B.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.

R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.

Name.	Proposed by.
3. Biswas, Mr. Saratlal, M.Sc.	Girindrasekhar Bose, Esq., D.Sc., M.B.

Statement of Qualifications.

Head of the Department of Geology, Calcutta University.

4. Prof. Debendramohan Bose, M.A., B.Sc., Ph.D. (Berlin).	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.

Statement of Qualifications.

M.A., B.Sc. (Cal.), Ph.D. (Berlin), Sir Taraknath Palit Professor of Physics; sometime Fellow of the Calcutta University; Author of numerous original papers.

5. Datta, Dr. Snehamay, D.Sc.	W. A. Jenkins, Esq., D.Sc.

Statement of Qualifications.

D.Sc., Professor of Physics, Presidency College. Formerly on several occasions Added Member of the Faculty of Science. Contributed many papers on spectroscopic and allied subjects. President of the Physics Section at the Indian Science Congress, 1936-37.

6. Mahalanobis, Mr. P. C., B.Sc., M.A. (Cantab.).	Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.

Statement of Qualifications.

B.Sc. (Cal.), M.A. (Cantab.), Professor of Physics, Presidency College. Author of numerous papers on Statistical subjects.

7. Mitra, Mr. Ladlimohan, M.Sc.	Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Statement of Qualifications.

Senior Professor of Chemistry, Bangabasi College.

8. Mitra, Prof. S. K., D.Sc., Dr.Sc.	Prof. Jnanendranath Mukherjee, D.Sc.

Statement of Qualifications.

D.Sc. (Cal.), Dr. Sc. (Paris); Fellow of the National Institute of Science of India; well-known for his research on the ionosphere; author of numerous original papers and (those Professor of Physics, Calcutta University.

Minutes of the Faculty of Science

FOR THE YEAR 1937.

(Special.)

No. 4.

THE 13TH MARCH, 1937.

Present :

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.R.M.F. (Bengal), *Dean, in the Chair.*

Prof. Praphullachandra Mitter, M.A., Ph.D.

Jatindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).

Nibaranchandra Ray, Esq., M.A.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds).

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

Rev. Father A. Verstraeten, S.J.

Sushilkumar Acharyya, Esq., M.Sc.

Prasantachandra Mahalanobis, Esq., B.Sc., M.A. (Cantab.).

Lalitmohan Mitra, Esq., M.Sc.

Prof. Hemendrakumar Mookerjee, D.Sc.

Nripendranath Sen, Esq., D.Sc.

Prof. Nikhilranjan Sen, M.A., Ph.D., D.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1937-38 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology, and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than *two* members for the Board of Studies in Experimental Psychology, not more than *six* members for the Board of Studies in Mathematics, not more than *six* members for the Board of Studies in Geography and not more than *three* members for the Board of Studies in Teaching.

The undermentioned gentlemen were proposed for election to the different Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S.
4. Rai Jnanchandra Ghosh, Bahadur, M.A.
5. Prof. Prafullachandra Mitter, M.A., Ph.D.
6. Prof. Jnanendranath Mukherjee, D.Sc.
7. Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
8. Nibaranchandra Ray, Esq., M.A
9. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P
11. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
12. Ladlimohan Mitra, Esq., M.Sc

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Minutes of the Senate

FOR THE YEAR 1937.

No. 7.

THE 26TH JUNE, 1937.

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A., *Vice-Chancellor, in the Chair.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Sobodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Rev. Father F. X. Crohan, S.J.

Dwarkanath Mitter, Esq., M.A., D.L.

W. O. Wordsworth, Esq., M.A., M.L.A.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

Prof. Harendracoomar Mookerjee, M.A., Ph.D., M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Lt.-Col. Sir Hassan Suhrawardy, Kt., O.B.E., V.H.S., LL.D. (Lond.), D.Sc. (Cal.), M.D., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

Jyotischandra Mitra, Esq., M.A., B.L.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at Law.

Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at Law.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab).

M. N. Basu, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Sushilkumar Mukherjea, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Rev. J. N. Ewvaen, B.Sc., B.D.

Khan Bahadur Maulvi Muhammad Musa Baksh, B.A.
Nibaranchandra Ray, Esq., M.A.
Lt.-Col. E. W. O'G. Kirwan, M.B., F.R.C.S.I., I.M.S.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Mahendranath Ghosh, Esq., B.L.
Khan Bahadur Tafazzal Ahmad, B.E.
Abu Ahmad Abdul Hafiz, Esq., M.A., B.L.
The Hon'ble Mr. Mukundabehari Mallik, M.A., B.L., M.L.A.
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Girindrasekhar Bose, Esq., D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc. (Cal.), M.Ed. (Leeds).
Ratanmohan Chatterjee, Esq., B.L.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).
The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.
C. F. Ball, Esq., M.A.
R. B. Lal, Esq., M.B.B.S., D.P.H., D.T.M.& H., D.S.
Rev. Father A. Verstraeten, S.J.
Syed Hedayetullah, Esq., M.Sc., Ph.D. (Lond.).
Satischandra Ray, Esq., M.A. (Lond.).
Rameschandra Majumdar, Esq., M.A., Ph.D.
Maulvi Ebrahim Khan, M.A., B.L.
Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).

The first item was as follows:—

1. The Syndicate to recommend to the Senate that—

(1) The Senate place on record their appreciation of the great work done by Sir Prafhullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S., F.R.A.S.B., for the advancement of Science, particularly in this University by initiating and inspiring researches in Chemistry. The Senate also place on record their appreciation of the sacrifice made by Sir Prafhullachandra Ray for the promotion of scientific teaching in this University. Sir Prafhullachandra Ray has been holding the chair of Palit Professor of Chemistry since 1916, and since 1922 his salary was, according to his desire, funded for the furtherance of the study of and research in Chemistry in the University College of Science.

(2) Sir Prafhullachandra Ray, Kt., C.I.E., Ph.D., D.Sc., F.C.S., F.R.A.S.B., be made *Emeritus* Professor of Chemistry with effect from 1st July, 1937, on which he retires from service of this University as Palit Professor of Chemistry.

The Vice-Chancellor: Members of the Senate, I have great pleasure in placing before the House on behalf of the Syndicate and of the Sir Taraknath Palit Trust the two resolutions which have been unanimously recommended by these bodies for the acceptance of the Senate

The resolutions refer to the distinguished services which have been rendered to this University, to this Province and to this country by Sir Praphullachandra Ray, whose term of appointment as Palit Professor of Chemistry expires on the 30th June this year and who has expressed his intention to retire from active service at the University.

In 1916 after the scheme for the establishment of the University College of Science had matured, the Senate secured the services of several distinguished Indians to come to Calcutta and occupy the first Chairs which were established out of the munificence of the late Sir Taraknath Palit and the late Sir Rasbehary Ghose. By far the most eminent at that time of these brilliant Professors was Sir Praphullachandra Ray, who came with a distinguished record of work at the Presidency College, Calcutta, to serve the cause of science in the University, in its new attempt to encourage research and original work in different branches of science pursued principally by Indians. There is no question that this policy inaugurated by this University has had a very large effect on the rest of India in the cause of progress of scientific knowledge and studies. Our gratitude to Sir Praphullachandra does not depend merely on the fact that he himself is a great scientist—that undoubtedly he is—but of greater importance is the fact that he has proved himself to be the founder of a school of Chemistry, and from that school have gone forth brilliant men of science to different Universities in India who are now adorning important positions either in Government service or in public life or in Universities or in the field of industrial regeneration of the country. Our gratitude to Sir Praphullachandra does not end in merely stating that he himself is a great scientist and has been the Founder of a school of Chemistry. He has been something more than that. He has proved himself to be a great industrialist and all those who know the part which he played in the establishment of the Bengal Chemical and Pharmaceutical Works Ltd. realise what the value of such services has been. Personally, of course, he has proved a benefactor not only of the Univer-

sity but of mankind in general. For the last 14 years he has served in this University without drawing his monthly salary of Rs. 1,000, and more than a lac of rupees has accumulated in the Fund which is at the disposal of the Senate for the purpose of higher study and research in Chemistry.

I believe it is the wish of all the members of the Senate that we convey to Sir Praphullachandra Ray, on the eve of his retirement, our gratitude and regards for the great work which he has done and we all hope and pray that he will be spared for a long number of years to continue as an *Emeritus* Professor of this University and devote himself to the cause of national progress.

The motion was carried with acclamation.

2 **Mr. Pramathanath Banerjee** moved that, as recommended by the Board of Management of the Khaira Fund, Prof. Shahid Suhrawardy, B.A. (Oxon.), be re appointed Bageswari Professor of Indian Fine Arts on the expiry of his present term of appointment, till he attains his sixtieth year, on a salary of Rs. 750 per month, on the conditions laid down in the rules governing the Professorship and subject further to such terms and conditions relating to his service as may be determined by the Senate.

N.B.—On the recommendations of the Board of Management of the Khaira Fund, the Executive Committee of the Council of Post-Graduate Teaching in Arts passed the following resolution on the 16th June, 1937 :—

"That the Executive Committee recommend to the Senate that Prof. Shahid Suhrawardy, B.A. (Oxon.), be re-appointed Bageswari Professor of Indian Fine Arts on the expiry of his present term of appointment till his sixtieth year on a salary of Rs. 750 per month."

The resolution of the Syndicate, dated the 17th June, 1937, on the above is as follows :—

"That the recommendation of the Executive Committee be approved."

Note.—The present term of appointment of Prof. Shahid Suhrawardy, B.A. (Oxon.), as Bageswari Professor of Indian Fine Arts will expire on the 18th September, 1937.

He said : I think I need not dilate upon the work done by Prof. Shahid Suhrawardy as Bageswari Professor of Indian Fine Arts. Five years ago when this particular appointment was made, there was a storm of opposition inside this house and outside. Prof. Suhrawardy has, through abundant of his zealous, laid down that criticism. His appointment this afternoon will be made I hope without

Minutes of the Senate

FOR THE YEAR 1937.

No. 10.

THE 18TH DECEMBER, 1937.

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A., *Vice-Chancellor, in the Chair.*

J. M. Bottomley, Esq., C.I.E., M.A. (Cantab.), Director of Public Instruction, Bengal.

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., Principal, Presidency College, Calcutta.

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Dwarkanath Mitter, Esq., M.A., D.L.

W. C. Wordsworth, Esq., M.A., M.L.A.

Sir E. B. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Prafullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Chunilal Biswas, C.I.E., M.A., B.L.

G. N. Gilchrist, Esq., C.I.E., M.A.

Prof. Harendracoomar Mookerjee, M.A., Ph.D., M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Rameprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Khan Bahadur Tasaddaq Ahmad, B.A., B.T., M.Ed.

R. Wolfenden, Esq., M.B.E., M.Sc., M.I.Mech.E., M.I.E. (Ind.), Barrister-at-Law.

Nawabzada A. S. M. Latif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.

Satischandra Ghosh, Esq., M.A.

W. A. Jenkins, Esq., D.Sc.

Rabindranarayan Ghosh, Esq., M.A.

M. N. Basu, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Khan Bahadur Maulvi Muhammad Moula Bakhsh, B.A.

Nibaranchandra Ray, Esq., M.A.

Apurvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Birendranath Ghosh, Esq., F.R.F.P.& S. (Glas.).
Abu Ahmad Abdul Hafiz, Esq., M.A., B.L.
Biresdranath Mookerjee, Esq., M.A., (Cantab.), M.I.E. (Ind.).
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Mrs. A. N. Chaudhuri, M.A. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Surendranath Sen, M.A., Ph.D., B.Litt. (Oxon.).
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.
Prof. Shahid Suhrawardy, B A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Jitendramohan Sen, Esq., B.Sc. (Cal.), M.Ed. (Leeds.).
Ratanmohan Chatterjee, Esq., B.L.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).
The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.
C. F. Ball, Esq., M.A.
A. F. Harvey, Esq., F C.H., M.I.E. (Ind.).
Rev. Father A. Verstraeten, S.J.
Maulvi Ebrahim Khan, M.A., B.L.

The Vice-Chancellor: Members of the Senate, before we proceed to the business of the meeting it is my duty to refer to the death of Sir Jagadishchandra Bose and to request you to pass a resolution placing on record our deep appreciation of the eminent services which he had rendered to the progress of scientific education in this country. Eloquent tributes have been paid to his memory from various quarters during the last three weeks. It has been pointed out how eminent he was intellectually and also how great were the services which he had rendered to his college, his province and his country during the last 50 years. One characteristic of his which strikes us prominently relates to his struggles against tremendous difficulties and obstacles at the beginning of his career when scientific research was practically unknown in this country. Dauntless was his determination: unswerving was his allegiance to his ideals. It was said in those days that Indians were not capable of conducting original research in diverse fields of knowledge and this challenge was successfully met by Sir J. C. Bose and Sir P. C. Ray, both life-long collaborators in the field of scientific activities. There is another characteristic which we as a University ought to recall on a day like this when we are paying our tribute to the memory

of Sir Jagadishchandra Bose. Although he specialised in his own line of work, he was not a mere specialist. He was a great lover of Indian culture and literature. He was indeed a patriot in the truest sense of the word. He loved Bengal, her people, her literature. He loved India and he longed for the day when his beloved motherland would occupy the position of honour and supremacy to which she is entitled in the field of knowledge and intellectual pursuits.

We can only hope and pray that those who are left behind him, workers not only of the present generation, but workers yet to come, will feel inspired by his great career and achievements and will be able to equip themselves in a befitting manner so as to serve the best interests of the country.

Now I would ask you to pass this resolution standing.

The resolution was carried in solemn silence, all the members present standing.

1. **The Hon'ble Mr. Justice Charuchandra Biswas** moved that Prof. Syud Hasnan, D.Litt., Lecturer in History of Civilisation at the University of Southern California, be appointed a Special University Reader on a honorarium of Rs. 1,000 to deliver a course of lectures on the following subjects:—

The European Crisis.
The Far Eastern Crisis.
America of To-day.

He said: The lectures have been delivered.

Rai Bahadur Prof. Khagendranath Mitra seconded the motion

The Vice-Chancellor: As the Lecturer was going back to America, the Syndicate permitted him with the informal approval of Government to deliver the lectures before the Senate's approval could be taken.

The motion was carried *nem con.*

2. **Mr. Pramathanath Banerjee** moved that as recommended by the Board of Management of the Sir Rashbehari Ghose Endowments in accordance with the recommendation of the Selection Committee appointed for the purpose, Prof. Jnanendranath Mukherjee, D.Sc., Guru-

Prof. Straub be accepted. You will find that all of them barring Sir William Holdsworth are coming out as Delegates to the Indian Science Congress which will be held in Calcutta early next month. It is one of the privileges of the University to confer Honorary Degrees on distinguished scholars and savants and it was the unanimous wish of the Syndicate and other persons connected with the University that this opportunity of the visit of so many eminent persons to this city should be taken and the University should confer Honorary Degrees on some of the delegates. The Syndicate also included the name of Sir William Holdsworth who has come out from Oxford as Tagore Professor of Law of this University. He has delivered his first lecture to-day and he will be in our midst in January when the special Convocation will be held. The Syndicate thought that by reason of his eminent qualifications an Honorary Degree should be conferred on him. I propose that the recommendation be approved by the Senate.

The proposal was carried.

The next item was as follows:—

8. The Syndicate to place before the Senate the Report of the Committee appointed by the Syndicate to consider the Revised Draft Bill for the Regulation and Control of Secondary Education in Bengal, forwarded by the Government of Bengal to the University for expression of opinion thereon and to recommend that the Report be adopted.

(Report printed at the end.)

The Vice-Chancellor: Before I call upon Mr. Justice Biswas to move the adoption of the Report, I should just inform you that one of the members of the Committee, Rai Pramodchandra Datta, Bahadur, could not sign the report when it was circulated to the members of the Senate. I have received his letter to day. He expresses his general approval of the report and says that this may be intimated to the Senate at the time the report will be taken up.

The Hon'ble Mr. Justice Charuchandra Biswas moved that the Report be adopted.

In moving he said: Sir, I beg on behalf of the Syndicate to present to you the report of the Committee appointed by them to consider the Draft Bill for the regulation and control of Secondary Education in Bengal.

In doing so, it is not necessary for me to recall past history. The question has been before the University now for many years, in fact ever since the Sadler Commission produced its monumental report in 1919. That Commission, as you know, was appointed in 1917 to examine the whole question of the re-organisation of the University and formulate a constructive policy in relation to the problem which it presents. The reform of Secondary Education was placed by them in the forefront of their recommendations, meaning thereby not merely the education imparted in the existing schools leading up to the Matriculation examination, but embracing within its scope the intermediate courses. It is an irony of fate that although so many years passed since the report of the Commission has practically remained a dead letter so far as Calcutta University is concerned. Attempts have been made from time to time by Government to introduce piece-meal legislation to give colourable effect to some of the proposals embodied in that report, but they fell practically still-born, and the reason is not far to seek. It is because they were attempts to make bricks without straw. If University reform could be effected by a stroke of the pen by merely altering the constitution, the Sadler Commission might not have met at all. Sir Michael Sadler and his colleagues were no visionaries, and they recognised that if University education was to be placed on a sound and satisfactory basis, it was incumbent for the State to recognise in a generous manner its obligation in the matter of provision of adequate funds It was futile to expect education to pay its own way. On almost every page of their report, therefore, they emphasised the need for a bold and courageous policy of financial generosity, as they stressed the importance of another condition equally indispensable, the necessity of carrying public opinion with any schemes of reform that might be introduced. And who would not say that they were perfectly right.

Given these conditions, I venture to assert that there is no one in this hall or outside who would not desire a real reform in the conditions and prospects of the University as a whole. I make bold to go further and say that there will be no objection to go ahead with the reconstruction of Secondary Education only for the present, if the problem of University reform as a whole in all its

The University of Calcutta & Acharya P C.Ray 1906-1944

stages and grades cannot be taken up all at once. An attempt is made in some quarters to create the impression that the University is opposed to the establishment of a Board for the control of Secondary Education. That is a delusion which ought to be dispelled at once. The University has never opposed it and does not oppose it now, but what it asks for is a genuine Board conceived on right lines which will really promote the interests of Secondary Education in the province, not a mere name which will merely conceal beneath a false exterior all the elements of Secretariat domination, with the make-weight of communal bias thrown in into the bargain. Give us, we say, a body, academic in character and academic in outlook, which will not make Secondary Education the sport of party politics or communal jealousies, but taking a juster and wider view of its responsibilities, will function as an instrument of true national progress, initiating its own policy of educational advance in an atmosphere of real freedom, unhampered by outside dictation or any ulterior considerations, so constituted as to represent and reflect all varieties of experience and command the unquestioning confidence and good-will of the community as a whole with sufficient resources placed at its disposal in no spirit of cheese-paring economy to enable it to accomplish its great task of providing larger and more varied educational opportunities for the younger generation.

Where is the imagination and where the statesmanship to call into being a Board of such a character and complexion, which will at once capture not merely the willing assent but the active co-operation of the whole of Bengal!

Sir, the report of the Committee has now been in your hands for some time, and you must have read it with the care and attention which the subject demands. So clearly and fairly does the report state the issues that it is hardly necessary for me to take up your time trying to dot the i's and cross the t's of it. There is one fact, however, about the report which I cannot but emphasise, and that is its unanimity—a unanimity achieved as a result of a full and free interchange of views among the members. I venture to hope, Sir, that upon a dispassionate consideration of the matter, that unanimity will be reflected in the judgment of the Senate this afternoon. I claim that the Committee has adopted a perfectly sound position as befits

The University of Calcutta & Acharya P.C.Ray 1906-1944

a body of responsible men called upon to consider a question of the gravest moment to the educational future of the province. Very wisely have the members refrained from going into details or subjecting the provisions of the Bill to meticulous criticism. The time for that will be after the ground has been cleared up so far as the fundamental issues are concerned: it is on these issues that the Committee finds it difficult to see eye to eye with the framers of the Bill. Let me emphasise that the problem of Secondary Education is not and cannot be solved by the easy and simple expedient of merely transferring the power of granting recognition to schools from the University to a glorified Department of Public Instruction. That is not the way to achieve the unity of control the lack of which is admittedly the bane of the present system. Public opinion in Bengal will never reconcile itself to such a retrograde step.

Sir, as the Committee has pointed out, if the ideal cannot be achieved, let us have the second best, but let us not in the name of reform merely intensify the evils of the existing system. As it is, Sir, looking at the Bill with no over-critical eye, one cannot help suspecting that its object is not so much to set up a competent body to look after the true interests of Secondary Education in Bengal, but only to tighten the control of the Department over it on the one hand, and pander to communal demands on the other. That way salvation does not lie, and let it go forth from the Senate of the Calcutta University to-day with one voice that it can never lend its support to such an obnoxious measure.

Sir Prafhullachandra Ray in seconding the motion said: I have much pleasure in seconding this motion. I hope it will commend itself to the approval of the members of the Senate and that it will be adopted unanimously.

Dr. W. A. Jenkins: I do not desire that there should be a long discussion on it. I merely wish to point out that it is not a fact that the Sadler Commission recommended an independent Board free from control of the Department. Definite provisos which the Sadler Commission recommended did imply a certain amount of Government control. However that is merely one minor part of the report.

The Hon'ble Mr. Justice Charuchandra Biswas: With reference to the point which has been raised, you will find from the Appendix to the Report that Government in their letter to the University on a previous occasion did quote certain passages from the Sadler Commission's report and I believe it is to these paragraphs that Dr. Jenkins is referring. These paragraphs and extracts have been set out. If you read the report as a whole, I venture to assert without fear of contradiction that the Sadler Commission never visualised a Board which will be under the domination of the Secretariat as has been proposed in the present Bill. Nobody questions for one moment the right and the obligation of the State in the matter of education, not Secondary Education alone, but education in all its stages. But it is one thing to state that the State is interested and must have a voice in the matter, but it is quite a different thing to place the whole administration under the domination of the Secretariat.

The motion was then put to the vote and carried *nem con.*

9. **Mr. Manmathanath Ray** moved that the following resolution of the Syndicate *re* award of the Onauth Nauth Deb Research Prize in Law for the year 1937 be confirmed :—

That in view of the fact that the candidate, whose thesis has been approved by the Board of Examiners has since died, the Syndicate recommend to the Senate that a posthumous award of the Prize be made and it be deemed to have been awarded to the late Mr. Wahed Hossain, B.L., for his thesis on 'Labour Legislation in British India.'

He said: The late Mr. Wahed Hossain duly submitted the thesis. He died before the report of the examiners was received.

Mr. Nibaranchandra Ray seconded the motion which was carried.

10. **Dr. Bidhanchandra Roy** moved that in view of the fact that Government have sanctioned payment of Rs. 1:1,000, the full amount, as grant-in-aid for the maintenance of the Minto Professorship in Economics for the year 1937-38, Professor Jitendraprasad Niyogi, M.A., Ph.D.

Report of the Committee on the Draft Secondary Education Board Bill appointed by the Syndicate.

We, the members of the Committee, appointed by the Syndicate, to consider and report on a Draft Bill forwarded by the Government of Bengal regarding the formation of a Board of Secondary Education, have the honour to submit our report.

This Committee was appointed originally to consider a Draft Bill prepared by an officer of the Education Department which was forwarded to the University in February, 1937. In June, 1937, the University was informed that a revised Bill was under preparation and it was asked to submit its observations thereon. The revised Bill reached the University on 10th November, 1937, and our report will deal with this Bill, as desired by Government.

Past History.

The question of the creation of a Board of Secondary Education in this province has been engaging the attention of Government and the University for the last fifteen years. A brief outline of the main stages through which the matter has passed will be found in Appendix A of this report.

CONSTITUTIONAL POSITION.

We do not propose in this report to deal with the point as to whether the Bengal Legislature is competent under the Government of India Act of 1935 and Orders framed thereunder to undertake legislation in respect of this University. Some correspondence has passed between the University and Government on this question which will be found in Appendix B. Our report is therefore to be taken as without prejudice to this aspect of the matter which will no doubt receive adequate consideration at the proper time.

IS A SECONDARY BOARD NECESSARY ?

Secondary education has made great progress in Bengal under the fostering care of the University, and mainly as the result of private initiative and enterprise. Schools have been started in response to local demands, and the necessary funds have come partly from fees, partly from the generosity of well-to-do persons and very largely from the self-sacrifice of the middle class. State expenditure incurred for the establishment and maintenance of secondary schools has been extremely inadequate. Even at the present day about 750 out of 1,300 schools receive no financial assistance from Government.

The view has been held in many quarters that a University, particularly like that of Calcutta which has a large jurisdiction and numerous responsibilities, should in normal circumstances have little to do with the detailed administration of high schools. The present

system of control also suffers from serious defects. The University recognises high schools, prescribes courses of studies and books for the Matriculation Examination and also conducts the examination. It has no inspectorate of its own and for this has to depend on the services of a staff maintained and controlled by Government. Further, the grants-in-aid are distributed by Government, the University having no voice in the matter. Again, text-books for classes below the two top classes of a high school are directly or indirectly prescribed by the Education Department which exercises its powers of supervision in various other directions. The Department has its own Education Code and the University maintains a School Code of its own.

These were perhaps some of the considerations which led the Sadler Commission to recommend an independent Board to control secondary and intermediate education, with large statutory resources at its command, but free from departmental control.

The University has all along held the view that a Board of Secondary Education, if created, should be constituted in accordance with educational requirements and solely with a view to the advancement of educational facilities in the province, the fundamental condition being that such a Board should receive large statutory grants from Government, but would be free from Government control in regard to the exercise of its powers and functions.

The question now arises, what are the alternatives regarding the general status of the Board ?

First, the Board may remain absolutely under the control of Government ;

Secondly, the Board may remain absolutely under the control of the University ;

Thirdly, the Board may be entirely independent and autonomous ;

Fourthly, the Board may remain under the general control of the Senate, but enjoy wide and sufficient powers for carrying on its activities.

A BOARD ASSOCIATED WITH THE SENATE.

We are opposed to the establishment of a Board that will be in effect an element in Secretariat administration. On this the Sadler Commission expressed itself strongly. Public opinion in Bengal will never reconcile itself to a Board that fundamentally will be in that sense subordinate to the Department of Education, and in our view it would be disastrous, if this were pressed at the present stage of our political development, when there is much confusion in public life, and bitterness, mistrust and suspicion play a large part in affairs. Any scheme of educational reorganization must depend for its success on the goodwill with which it is received by the public, and a Board under official domination both in policy and in procedure will not be generally acceptable.

On the other hand, a Board entirely under University control would also perhaps evoke opposition, chiefly because secondary education is more than preparation for university studies. It must be

looked on as part of the system of general education, larger and wider than pre-university preparation, whose aim is to give students a wide choice of possibilities and occupations, not to take them along a path that leads only to the University.

A Board that is entirely autonomous and independent is theoretically the best choice. But we cannot suddenly make an entirely new environment of thought and material conditions and break away from traditions rooted in our soil and our natures. Therefore, it is desirable that the Board should work with freedom and full responsibility—we emphasize these words—under general control of and in close association with an educational organization representative of various interests and with a wide experience of educational needs and possibilities. Nor can the new Matriculation regulations, for which the University has been primarily responsible, be disregarded as an unimportant element in the situation.

For these reasons we support the establishment of a Board of Secondary Education which will work under the general, but not meticulous, control of the Senate of the University and be in close touch and ready understanding with it. The Board should be a statutory body, academic in its character and outlook with a non-official majority, including representatives of diverse interests; its regulations should be subject to the approval of the University and Government, but there should be no detailed interference with its activities.

What we visualise is that the Syndicate and the Post-Graduate Executive Councils will continue to be the executive bodies of the Senate in respect of collegiate and Post-Graduate education, and the Board of Secondary Education will concern itself with the development of secondary education in its all aspects. The present dual control should be brought to an end. Such a Board should be given powers over all matters concerning secondary education, such as inspection and recognition of high schools, distribution of grants-in-aid, laying down of courses of studies and syllabuses, prescription of text-books and conduct of the Matriculation examination. The Board will maintain its own inspecting staff. It will receive a statutory grant from Government for encouragement of secondary education and the performance of its functions. If the income from Matriculation fees and text-books is transferred to the Board, the question of compensating the University for its loss of revenue will have to be carefully determined. Government will exercise a general control by virtue of its powers to confirm or reject the regulations. The Senate which conducts its deliberations in public will be in a position to discuss general matters of educational policy followed within the jurisdiction of the Board, and also bring up before it any important matter concerning its activities, should the occasion arise.

Thus the chief defects of the present system will disappear. There will be a competent body to look after the welfare of secondary education in

all its aspects. There will be no violent and sudden change of policy and procedure, and the public mind will be satisfied that all the authorities concerned are working in co-ordination for the achievement of a common end, namely, a sound and wide expansion of educational activities for the people of this province.

We do not propose at this stage to go into the details of the scheme we have suggested. They may be worked out without difficulty, if the University and Government are agreed on the main question of policy. A Committee may be set up which would include representatives of all interests concerned, and a draft bill may be prepared by it.

SOME FEATURES OF THE PRESENT BILL.

We shall not take up a detailed examination of the Bill referred to us by Government. In our opinion the Bill is not a sound educational measure. It does not solve any of the present problems ; on the other hand, it makes things definitely worse. We find that it has been suggested in the Bill that all high schools of the province will be automatically disaffiliated after a year and each school will have to seek for fresh recognition from the new Board. Provisions such as this naturally raise doubts in the minds of the people as to the motives which have inspired the formulation of this measure. We do not understand how private schools which have not received a farthing from the coffers of the State

can be compelled to join a new organisation which will not be guided solely by educational considerations. We find also that there is no proposal in the Bill for a statutory grant to be made by Government for the improvement of secondary education. If the position of the high schools to-day is generally bad, it is not due to any want of enthusiasm or efforts on the part of workers, teachers and managers. It is not even so much due to the defects in the present system of educational organisation; it is principally due to lack of funds and inadequate support from the State. The Bill as drafted creates three bodies (in place of two as at present) which will control secondary education in future—the Board, the University and the Education Department, which instead of simplifying the method of working and introducing better co-ordination, will give rise to further complications in the future. The creation of District Committees, the majority of whose members will be nominated by Government directly, is another objectionable feature to which reference may be made.

The respective powers of the Board and the University regarding many important matters, *e.g.*, courses of study and syllabuses, have been left undefined. The representation given to the University and other educational interests, particularly to high schools, is also inadequate.

We cannot help referring to the elaborate provisions regarding audit which find a prominent place in the Bill. Obviously such detailed provi

sions, if required, should be framed under rules or regulations and not included in a legislative enactment. They seem to imply mistrust in the body which the Bill proposes to create.

We cannot but express our view on the question of communal representation as embodied in the Bill. We may note here the manner in which proposals for such representation have developed since 1926. In 1926 Government gave 14 per cent. of the seats to Muslims; in 1928, it was 16 per cent.; in 1937, the Bill which was subsequently withdrawn in June of this year gave 17 per cent. to the Muslims. The present Bill reserves 41 per cent. of the seats for Muslims, and renders it more than likely for a few more seats to go to that community in the way the constitution has been drawn up. As a University we are against communal representation as such. We look upon this part of the Bill with considerable anxiety and disfavour. We believe that while framing the scheme, proper representation of the educational interests of all communities can be secured without making statutory provision for representation on a communal basis. The establishment of small advisory committees for looking after the educational interests of particular classes and communities should meet all reasonable requirements.

The Bill makes no reference to Assam. If Assam is included within its purview, we shall also have to consider the question of representation of her interests.

CONCLUSION.

In concluding our report we are unable to recommend that the Senate should accept the Bill as drawn up. We are passing through anxious, if not critical, times in the history of educational progress in Bengal. We fear that the Bill as drawn up is a reactionary measure and will retard the progress of education and place obstacles in the path of those who are anxious to serve its cause. In our opinion Government will be well advised to withdraw this Bill, and after a full and adequate consultation with those competent to express their opinion on a measure like this, to bring forward fresh proposals which will be found readily acceptable to all as a definite step towards improvement and expansion of secondary education.

SYAMAPRASAD MOOKERJEE.
P. C. RAY.
BIDHANCHANDRA ROY.
W. C. WORDSWORTH.
C. C. BISWAS.
H. C. MOOKERJEE.
P. N. BANERJEE.
KHAGENDRANATH MITRA.
PRAMATHANATH BANERJEA.
P. C. DUTT.
M. QUDRAT-I-KHUDA.
M. Z. SIDDIQI.

8th December, 1937.

University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1938

CALCUTTA UNIVERSITY PRESS

for many years. He was Dean of the Faculty of Arts and University Professor in English and was associated with the University in various other capacities. By his death we mourn the loss of a beloved colleague whom we respected and admired as much for his high character as for his great contributions to those important elements which go to the foundation of a teaching and research University. Not only he served the University with zeal and devotion but he was also a great figure in the educational world in the province. He represented us on the first Congress of the Universities of the British Empire and there he won for himself a distinguished position among the delegates from overseas. The City College with which he was connected practically from the beginning of his educational career has suffered great loss by his death and one of the ways in which we could worthily perpetuate his memory would be to see that this College which has done so much for the cause of education is placed on a basis of surety and stability so far as its future activities are concerned.

By the death of Dr. Saratchandra Chatterjee Bengal has lost a most eminent man of letters whose contributions to Bengali literature have won for him a permanent place in the affections of his countrymen. Indeed the career of Saratchandra Chatterjee is a romantic one. We have found distinguished writers and scholars who have gone on from strength to strength as the years have rolled by, their names having remained before the public mind from an early stage of their literary careers. But that was not the case with this famous novelist and story-writer of Bengal. His rise was meteoric. None knew the name of this humble assistant working in distant Rangoon about 20 years ago. Suddenly his writings came into prominence and he was acclaimed as one of the most eminent writers of his age. He had all the elements of a genius in him, brilliant and original, restless and daring. He was a man of the people. He suffered deeply in his early life and on account of this he could sympathise with the woes and sufferings and aspirations of all classes of people, which came out beautifully and prominently in his writings that would live through this generation and generations yet unborn. So far as this University is concerned, we had an occasion to honour ourselves by conferring on him the Jagattarini Gold Medal in 1924, the first recipient having been

3

our national Poet, Dr. Rabindranath Tagore. Shortly before Saratchandra Chatterjee went to hospital, he expressed his willingness to me to deliver a course of special lectures before this University. That wish will remain unfulfilled for ever. Those who are left behind him will best perpetuate the memory of this great son of Bengal by devoting themselves directly and indirectly to the cause of Bengali literature, for to him nothing was dearer, nothing more vital for developing our national life

I would request you to rise in your seats and record our sense of loss at the death of these gentlemen.

The resolution was carried in solemn silence, all the members present standing.

1. **Mr. Pramathanath Banerjee** moved that Mr. Jogeschandra Chakravorti, M.A., be appointed Registrar of this University for a further period of five years on the existing terms and conditions with effect from 1st April, 1938.

Note.—Mr. Jogeschandra Chakravorti, M.A., was appointed Registrar of the University for a period of five years with effect from 1st April, 1938.

He said: In commending this resolution to the acceptance of the House I need hardly dilate upon the services of our Registrar, the most important executive Officer of this University. He has been with us for 17 years and has rendered most conspicuous and loyal services to his *Alma Mater*.

Mr. Satyendranath Ray seconded the motion which was carried *nem. con.*

2. **Rai Bahadur Prof. Khagendranath Mitra** moved that Dr. F. W. Thomas, C I.E., M.A., Ph.D , be appointed a Special Reader of this University on a honorarium of Rs. 2,000 to deliver a course of lectures on "Some stages in the Literature of India and Greater India."

He said: The name of Dr. Thomas is well known. He served as Boden Professor of Sanskrit in the University of Oxford till lately. Before that he was Librarian of the India Office Library. His name is well known as a very distinguished scholar and he is honoured also by Indian students who happened to come into contact with him, many of whom were inspired by his high ideals of scholarship and research.

appointed an Assistant Lecturer in the Department of Pure Chemistry on Rs. 195 in the grade Rs. 150-15-300, his next increment to fall due on the 1st June, 1939, subject to such terms and conditions relating to his service as may be determined by the Senate. He will remain on probation for one year.

(Proceedings of the Selection Committee printed at the end.)

He said: There is a vacancy in the department of Chemistry for a Lecturer due to the appointment of Mr. Priyadaranjan Ray as Khaira Professor of Chemistry and there is another vacancy in the same department for an Assistant Lecturer due to the death of Mr. Kalikumar Kumar.

Prof. Phanindranath Ghosh seconded the motion which was carried *nem con.*

The next item was as follows:—

5. To appoint a member for the constitution of a Selection Committee in English.

Note.—The undermentioned gentlemen had already been nominated on the Committee:—

(i) Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law, M.L.A.—from the Executive Committee, Council of Post-Graduate Teaching in Arts.

(ii) Mr. Rabindranarayan Ghosh, M.A.—from the Syndicate.

The Vice-Chancellor: The Executive Committee has proposed that the status of the University Professor should be conferred on Mr. Praphullachandra Ghosh, who has been our part-time Lecturer in English for the last 27 years. Under the Regulations a Selection Committee is to be formally appointed. That is why steps are being taken to that end.

The Hon'ble Mr. Justice Charuchandra Biswas moved that Prof. Harendracoomar Mookerjee be appointed a member on the Selection Committee in English.

Mr. Pramathanath Banerjee seconded the proposal.

The Vice-Chancellor: As no other name has been proposed, I declare Prof. Harendracoomar Mookerjee duly elected a member of the Selection Committee in English.

6. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine and Engineering* for the year 1938-39.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties as also the additional names proposed by the Members of the Senate, under Section 9, Chapter III of the Regulations was previously circulated.

The Vice-Chancellor: Strictly speaking, we have to ballot for the constitution of each Faculty separately. As you know, it takes an hour or so. I would like to know if members would accept the names recommended by the Syndicate with the additional names proposed. If members are unanimous in accepting the names then we need not formally circulate the ballot papers, but if there is even one dissension, then, of course, we shall have to take ballots.

The names as recommended by the Syndicate and the additional names proposed were unanimously accepted for the constitution of the Faculties of Arts, Science, Law, Medicine and Engineering, for the year 1938-39.

The Faculties of Arts, Science, Law, Medicine and Engineering as constituted by the Senate are as follows:—

FACULTY OF ARTS.

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Rai Jnanchandra Ghosh Bahadur, M.A.
Birajmohan Majumdar, Esq., M.A., B.L.
Rev. Father F. X. Croban, S.J.
Hiralal Haldar, Esq., M.A., Ph.D.
Dwarkanath Mitter, Esq., M.A., D.L.
W. C. Wordsworth, Esq., M.A., M.L.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Prabhatchandra Mitter, M.A., Ph.D.
Manmathanath Roy, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
R. N. Gilchrist, Esq., C.I.E., M.A.
Prof. Harendracoomar Mookerjee, M.A., Ph.D., M.L.A.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Lt.-Col. Sir Hassan Suhrawardy, Kt., O.B.E., V.H.S., LL.D., M.D., D.Sc., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).
Ramaprasad Mookerjee, Esq., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Johan Van Manen, Esq., C.I.E.
Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Khan Bahadur Tasaddaq Ahmad, B.A., B.T., I.E.S.
Sir S. Radhakrishnan, Kt., M.A., D.Litt.
Nawabzada A. S. M. Lutif-ur-Rahman, M.A. (Cantab.), Barrister-at-Law.
Satischandra Ghosh, Esq., M.A.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
Rabindranarayan Ghosh, Esq., M.A.

Maulvi A. F M. Abdul Kadir, M.A.
Rev. J N. Rawson. B.Sc., B.D.
Mrs. P. K. Ray, M.B.E.
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev C. E. Milford, M C. M.A.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq , M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M A
Khan Bahadur Maulvi Alfaz-ud din Ahmed. M.A., M.L.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Khan Bahadur Abdulla Abu Sayied, M.A.
Jitendralal Banerjea, Esq. M.A., B.L.
Prof. Muhammad Zubair Siddiqi. M.A., B.L., Ph.D. (Cantab.).
Mrs. A. N. Chaudhuri. M.A. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, O.I.E., B.A.
Prof. Surendranath Sen, M A., Ph.D., B.Litt. (Oxon.).
H. A. Stark, Esq., B.A.
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Nijogi, M.A., Ph.D., (Lond.).
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Praphullachandra Ghosh, Esq., M.A.
The Hon'ble Mr. Justice Rupendra Coomar Mitter, M.Sc., M.L.
C. F. Sell, Esq., M.A.
Satischandra Ray, Esq., M.A. (Lond.).
Rameschandra Majumdar, Esq. M A., Ph.D.
Maulvi Ebrahim Khan. M A., B L.
The Hon'ble Mr. Justice N. A Khundkar, M.A., Barrister-at-Law.
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
Satyacharan Law, Esq , M.A., B.L., Ph.D., F.N.I., F.Z.S.
S Wajid Ali, Esq., B.A. (Cantab.), Barrister-at Law.
Pulinbihari Mallik Esq., M.A., B.L., M.L.A.

FACULTY OF SCIENCE.

J. M. Bottomley, Esq., C.I.E., M.A. (Oxon.).
Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt , M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D. F.N I., F.R A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Rai Jnanchandra Ghosh, Bahadur, M.A.
Bidhanchandra Roy, Esq., B A , M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S M.F. (Bengal).
Prof. Prafullachandra Mitter, M.A., Ph.D.
Jyotischandra Mitra, Esq., M.A., B.L.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq , M A.
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.). F.R C.S. (Edin.), F.S.M F. (Bengal).
Nibaranchandra Ray, Esq., M.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., L.M.S., F.S.M.F. (Bengal).
Girindrashekhar Bose, Esq., D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip. Ed. (Oxford), F.R.G.S., F.N.I.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).
Rev. Father M. Verstraeten, S.J.
Syed Hidayetullah, Esq., M.Sc., Ph.D. (Lond.).
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

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Minutes of the Faculty of Science

FOR THE YEAR 1938.

No. 2

THE 2ND MARCH, 1938.

(Special.)

Present :

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.O.L., F.S.M.F. (Bengal), *Dean, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Oxford), M.Sc.

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Prof. Praphullachandra Mitter, M.A., Ph.D.

Satischandra Ghosh, Esq., M.A.

M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Nibaranchandra Ray, Esq., M.A.

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip. Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).

Rev. Father A. Verstreten, S.J.

Syed Hidayetulla, Esq., M.Sc., Ph.D. (Lond.

Satyacharan Law, Esq., M.A., B.L., Ph.D., F.Z.S., F.N.I.

The Faculty met to elect Added Members for the year 1938-39.

The following were the names and statements of qualifications of the persons proposed for election :—

	Name.	Proposed by.
1.	Acharyya, Mr. Susilkumar, M.Sc.	Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip. Ed. (Oxford), F.R.G.S., F.N.I.

Statement of Qualifications.

Lecturer in Physics, Calcutta University.

2. Banerjee, Mr. Surendrachandra, B.A., B.Sc., F.L.S. — Rai Jnanchandra Ghosh, Bahadur, M.A.

Statement of Qualifications.

Prof. Banerjee is a distinguished Botanist. He has acted as an Added Member of the Faculty of Science for many years and has done excellent work in the Faculty and Boards.

3. Bardhan, Dr. J. C., D.Sc. ... Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Statement of Qualifications.

Dr. Bardhan is a very distinguished graduate of this University; he took his D.Sc. from this University as well as the University of London. He has done a series of very important work on different aspects of Organic Chemistry and has been connected with the teaching work of the University for the last fourteen years. His work has been widely appreciated in various countries of the world.

4. Bhattacharyya, Mr. Nibaranchandra, M.A., B.Sc. — Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Statement of Qualifications.

Ramor Professor of Physiology, Presidency College. Has been elected by the Faculty of Science as an Added Member for many years, and rendered valuable service on the Boards of Studies in Physiology and Botany.

5. Biswas, Mr. Saratlal, M.Sc. — Girindrasekhar Bose, Esq., D.Sc. M.B.

Statement of Qualifications.

Head of the department of Geology, Calcutta University.

6. Bose, Prof. D. M., M.A., B.Sc., Ph.D. — Sir Prafullachandra Roy, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Statement of Qualifications.

Sir Tarakanath Palit Professor of Physics: For sometime Fellow of the Calcutta University; Member of the Faculty of Science for many years; Author of numerous original papers.

7. Mahalanobis, Mr. Prasantachandra, M.A. (Cantab.), B.Sc. (Cal.). — Bhupatimohan Sen, Esq., M.A. (Cantab.) M.Sc.

Statement of Qualifications.

Senior Professor of Physics, Presidency College.

8. Mitra, Mr. Lalitmohan, M.Sc. ... Satyendranath Roy, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).

Statement of Qualifications.

Senior Professor of Chemistry, Bangabasi College.

9. Mitra, Prof. S. K., D.Sc. ... Prof. Jnanendranath Mukherjee, D.Sc.

Minutes of the Senate

FOR THE YEAR 1938.

No. 5.

THE 5TH MARCH, 1938.

Present :

The Right Hon'ble Sir Michael Hubert Rudolf Knatchbull, Baron Brabourne, G.C.S.I., G.C.I.E., M.C., J.P., *Chancellor, in the Chair.*

Syamaprasad Mookerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A., *Vice-Chancellor.*

Ex-officio Fellows

The Most Reverend F. Westcott, D.D., *Lord Bishop of Calcutta and Metropolitan in India.*

J. M. Bottomley, Esq., C.I.E., M.A. (Cantab.), *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.Sc., M.A. (Cantab.), *Principal, Presidency College, Calcutta.*

Honorary Fellow

Maulvi Abdul Karim, B.A.

Ordinary Fellows

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Birajmohan Majumdar, Esq., M.A., B.L.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

R. N. Gilchrist, Esq., C.I.E., M.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Lt.-Col. Sir Hassan Suhrawardy, Kt., O.B.E., V.H.S., L.L.D., D.Sc., M.D., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

R. Wolfenden, Esq. M.B.E., M.Sc., M.I.Mech.E., M.I.E (Ind.), Barrister at-Law.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.)

Satischandra Ghosh, Esq., M.A.

Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I E (Ind.).

W. A. Jenkins, Esq., D.Sc.

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., M A., Ph.D. (Cal), Ph.D. (Cantab.).

M. N. Bose, Esq., M.B., C.M. (Edin.). F.S.M.F. (Bengal).

Sasilkumar Mukherjee, Esq., L M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F R.C.S. (Edin.), F.S.M.F. (Bengal)

Rev. C. S. Milford, M.C., M A.

Nibaranchandra Ray, Esq., M A.

Muhammad Qodrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I C., I.M.S., F.S.M.F. (Bengal).

Birendranath Ghosh, Esq., F.R.F.P.& S. (Glas.).

Abu Ahmad Abdul Hafiz, Esq., M.A., B.L.

Khan Bahadur Abdullah Abu Sayied, M.A.

Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.)

Mrs. A. N. Chaudhuri, M.A. (Cantab.).

Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.

Lt.-Col. E. H. Vere Hodge, M.D. (Cantab.), F.R.C.P. (Lond.), I.M.S.

Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Ratanmohan Chatterjee, Esq., M.B.E., B.L.

Satyendranath Ray, Esq., M.B., F.R C.S. (Edin.), D.T.M. & H. (Eng.).

C. F. Ball, Esq., M.A.

R. B. Lal, Esq., M.B.B.S., D.P.H., D.T.M.&H., D.B.

Rev. Father A. Verstraeten, S.J.

Satischandra Ray, Esq., M.A. (Lond.)

Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).

Prof. Hemchandra Raychaudhuri, M.A., Ph.D.

Reverend Charles Freer Andrews, who was invited to address the Convocation, was also present.

The *Ex-officio* Fellows, the Honorary Fellows and the Ordinary Fellows of the University, who previously signified their intention of attending the Convocation, assembled in academic costume, in the lawn at the UNIVERSITY COLLEGE OF SCIENCE, 92, UPPER CIRCULAR ROAD, CALCUTTA, at 9-40 A.M.

At 9-45 A.M. REVEREND CHARLES FREER ANDREWS was received by the VICE-CHANCELLOR and the REGISTRAR.

At 9-55 A.M. THE VICE-CHANCELLOR and the Registrar received HIS EXCELLENCY THE CHANCELLOR at the Main Stair at the Science College. THE VICE-CHANCELLOR introduced the Members of the Syndicate to HIS EXCELLENCY.

HIS EXCELLENCY THE CHANCELLOR then proceeded to the robing room where he robed.

HIS EXCELLENCY was then conducted to the lawn where he inspected the GUARD OF HONOUR furnished by the Calcutta University Training Corps.

HIS EXCELLENCY then proceeded to the place where the Fellows assembled and was received by them.

A procession was then formed, which proceeded to the Convocation pandal in the following order:

THE REGISTRAR,
Members of the Syndicate, arranged two and two
in order of seniority,
HIS EXCELLENCY THE CHANCELLOR,
Reverend CHARLES FREER ANDREWS,
The VICE-CHANCELLOR,
Former Vice-Chancellors,
Ex-officio Fellows, arranged two and two
in order of seniority,
Honorary Fellows, arranged two and two
in order of seniority,
Ordinary Fellows, arranged two and two
in order of seniority.

As the procession entered the pandal, all present rose in their seats and remained standing until HIS EXCELLENCY THE CHANCELLOR had taken his seat on the dais

SIR NILRATAN SIRCAR, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal) and Lt.-Col. SIR HASSAN SUHRAWARDY, Kt., O.B.E., V.H.S., LL.D., D.Sc., M.D., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal), *former Vice-Chancellors*, the *Ex-officio* Fellows, and the Deans of the Faculties occupied seats on the dais. Seats were reserved on the dais for Rai Gyanendrachandra Ghosh, Bahadur, C.I.E., Sir Praphullachandra Ray, Kt., D.Sc., Ph.D., F.N.I., F.R.A.S.B., Prof. Harendracoomar Mookerjee, M.A., Ph.D., and Lady Abala Bose, *Benefactors* of the University.

courage, wisdom and foresight, and inspire in the hearts of thousands of her sons and daughters an abiding sense of loyalty and affection which will sustain her in her days of trial and of triumph and lead her on from strength to strength towards the fulfilment of her destiny.

HIS EXCELLENCY then requested REVEREND CHARLES FREER ANDREWS, who was invited to address the Convocation, to deliver his address.

REVEREND CHARLES FREER ANDREWS then addressed the Convocation as follows:—

CHANCELLOR, VICE-CHANCELLOR AND FRIENDS,

You will pardon me to-day if I speak chiefly to those who are students; for my whole life has been spent in the student world, among the young, and I have a deep love for them which seeks to find its utterance at a time like this in the hope that some word of mine may cling to their memories long after Convocation Day is over. For the same reason, also, what I write will be direct and simple. Need I add that this deep love for Bengal and its students had its origin in my own revered teacher, Gurudeva Rabindranath Tagore? Never has anyone had such a friend and guide as he has been to me!

So let me take, as my main theme, the phrase that Professor Whitehead has set in the forefront of his book, called 'Science and the Modern World.' He has dedicated it thus: "*To my colleagues, past and present, whose friendship is inspiration.*"

instance at least, in the very place where we are gathered to-day ; and I would like to bear witness to what I saw.

During the Flood Relief of North Bengal, many years ago, I used to come, very early in the morning, by train from Bolpur in order to take instructions from Acharya Prafulla Chandra Roy who along with Satis Chandra Das Gupta was in charge of the flood relief operations. I would then go on from him to Sealdah Station. It was easy for me to notice on these occasions, how, in his own Science Buildings, he used to live the life of a true scholar such as India knew and loved of old. For he was clearly in every way the friend of his pupils, sharing with them everything he had, including his own expert scientific knowledge. He would give them all the credit. It reminded me of Sir George Gabriel Stokes at Cambridge over again. His students were his friends, and he was their *guru*: and if the noble word of my own scripture is true: "Greater love hath no man than this that a man lay down his life for his friends," then it was true of him: for he was literally ready to lay down even life itself for those who were his pupils and whom he called his friends.

Again and again, I used to meet him during those days whenever I went to the flooded areas at Santahar, Potisar and Atrai, and what I saw of him was always the same. He lived a life of great austerity and sacrificed all for the great work he had undertaken, building up the science side

of the University in that important area of practical Chemistry which had been entrusted to him. No wonder the students themselves flocked to him in order to undertake the work of relief of human suffering in North Bengal, when he himself gave them the stirring call. For they knew that there was nothing which he would invite them to undertake that he was not ready first of all to do himself.

I have taken this example, because it is still living and fresh within my own memory, and it came directly into my own life experience. It showed to me how the very greatest difficulties of a modern city life, like that of Calcutta, could be overcome, if only the human spirit were wholly dedicated to the task.

At this point, I would also record my strong conviction that Sir Asutosh Mookerjee, one of the outstanding Vice-Chancellors of recent times, had the genius to see that in the higher branches of research these ideal conditions between teachers and taught could be repeated in this University, at least among the most brilliant students. For he determined to make Calcutta not merely an examining centre, where thousands of students should sit for examinations, but a teaching University, where studies might be carried on in the higher branches of learning. In this way, it would prove a benefit, not only to India, but to all mankind. With such an object in view, one after the other, new Chairs were founded and lectureships appointed in subjects which should

keep India in close touch with the most advanced thought of the day. Here, the classes were necessarily small, and the contact with advanced students thus became happily all the more close. The task of providing funds for this great enterprise was colossal and none but a giant in strength and determination would have attempted it: but his own generosity stimulated others and in this manner very notable additions to the higher life of the University were brought about by his magnificent effort.

Here, also, under Sir Asutosh's wise direction, in the conduct of this higher research work, whether in literature, philosophy, or science, Calcutta University has refused to be provincial. It has chosen its teachers from every part of India, and also from other lands: for human knowledge knows no local boundaries. The word 'University' itself implies this, and so now you are rightly proud to have had here on your staff not merely scholars from your own country of highest repute, but also such brilliant men as the Nobel Prize Winner, Prof. C. V. Raman, and the Oxford Professor of Eastern Religion and Ethics, Professor Radhakrishnan, both of whom have been invited to come to Calcutta from the South. Indeed, more and more it may truly be said, that although this city has ceased to be the political capital of India, it remains, and is likely to remain, for generations to come, the intellectual capital and centre of the whole country. That, after all, is the greatest distinction which can be given

Minutes of the Faculty of Science

FOR THE YEAR 1938.

(Special.)

No. 4.

THE 19TH MARCH, 1938.

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *in the Chair.*

Prof. Sahodhchandra Mahalanobis, B.Sc., F.R.S.E.

Rai Jnanchandra Ghosh, Bahadur, M.A.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Satischandra Ghosh, Esq., M.A.

Nibaranchandra Ray, Esq., M.A.

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M & H. (Eng.).

Rev. Father A. Verstraeten, S.J.

Sushilkumar Acharyya, Esq., M.Sc.

Jogendrachandra Bardhan, Esq., D.Sc.

Ladlimohan Mitra, Esq., M.Sc.

Nripendranath Sen, Esq., D.Sc.

In the absence of the Dean, Sir Upendranath Brahmachari was voted to the Chair.

The Faculty met to elect members of the Boards of Studies for the year 1938-39 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Studies in Experimental Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The undermentioned persons were proposed for election as members of the Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., FR.A.S.B., F.S.M.F. (Bengal).
2. Professor Sahodhchandra Mahalanobis, B.Sc., F.R.S.E.

3. Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
4. Raj Jnanchandra Ghosh, Bahadur, M.A.
5. Professor Prafullachandra Mitter, M.A., Ph.D.
6. Professor Jnanendranath Mukherjee, D.Sc.
7. Sasilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
8. Niharanchandra Ray, Esq., M.A.
9. Mahammad Qudrat-i-Khoda, Esq., D.Sc. (Lond.), D.I.C.
10. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
11. Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal)
12. Jogendrachandra Bardhan, Esq., D.Sc.
13. Ladlimohan Mitra, Esq., M.Sc.

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University of Calcutta

MINUTES OF THE SENATE

AND THE FACULTIES

FOR THE YEAR

1939

CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Science

FOR THE YEAR 1939

No. 1

THE 3RD JANUARY, 1939

(Special)

Present :

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Dean, in the Chair.

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F (Bengal).
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Satischandra Ghosh, Esq., M.A.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F (Bengal).
Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Nibaranchandra Ray, Esq., M.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).
Sushilkumar Acharyya, Esq., M.Sc.
Jogendrachandra Bardhan, Esq., D.Sc.
Lalitmohan Mitra, Esq., M.Sc.
Prof. Nikhilranjan Sen, D.Sc., Ph.D.
Nripendranath Sen, Esq., D.Sc.

The Faculty met to elect one Ordinary Fellow in place of Rai Jnanchandra Ghosh, Bahadur, M.A., whose tenure of office as an Ordinary Fellow elected by the Faculty of Science in 1934 would expire, under Section 4 of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921), on the 16th January, 1939.

The undermentioned gentleman was proposed for election :—

Name	Proposed by
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Minutes of the Senate

FOR THE YEAR 1939

No. 1

THE 28TH JANUARY, 1939

Present :

The Hon'ble Khan Bahadur M. Aziz-ul Huque, C.I.E., B.L., M.L.A., *Vice-Chancellor, in the Chair.*

W. A. Jenkins, Esq., D Sc., Director of Public Instruction, Bengal.

Bhupatimohan Sen, Esq , M.A. (Cantab), M.Sc., Principal, Presidency College, Calcutta.

Sir Nilratan Sircar, Kt , M A , M D , LL.D., D.C.L., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph D., F.N.I., F.R.A.S.B., F.S.M.F (Bengal)

Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S B.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Sir Z. R. Zahid Suhrawardy, Kt , M.A., B.L., Barrister-at-Law.

Prof. Prafhullachandra Mitter, M.A , Ph.D.

Manmathanath Ray, Esq., M.A., B.L , M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

R. N. Gilchrist, Esq., C.I.E., M.A

Pramathanath Banerjee, Esq., M A , B.L., Barrister-at-Law, M.L.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Pramathanath Banerjea, Esq , M.A., D.Sc., Barrister-at-Law, M.L.A.

Julian Van Manen, Esq., C I.E.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M L.A.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.

Nawabzada A. S. M. Latif-ur-Rahman, M A. (Cantab.), Barrister-at-Law.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M A.

Jotindramohan Ray, Esq., B.A., C E. (Roorkee), M.I.E. (Ind.).

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., M A , Ph.D. (Cal.), Ph.D. (Cantab.).

Rabindranarayan Ghosh, Esq., M.A

M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Ali Karim, Esq., B.Sc (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.

Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.

Nibaranchandra Ray, Esq., M.A.

Apurvakumar Chanda, Esq., M.A. (Oxon.).

Khan Bahadur Maulvi Muhammad Musa, M.A.

Lalitmohan Banerjee, Esq., M.S., F.R.C.S. (Eng.).

Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Birendranath Mookerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).

Mrs. A. N. Chaudhuri, M.A. (Cantab.).

Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.

Prof. Surendranath Sen, M.A., Ph.D., B.Litt. (Oxon.).

T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.

Prof. Shahid Suhrawardy, B.A. (Oxon.).

Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Ratanmohan Chatterjee, Esq., M.B.E., B.L.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.& H. (Eng.).

Col. Karunakumar Chatterjee, L.M.S., F.R.C.S.I., I.T.F., F.S.M.F. (Bengal).

C. F. Bell, Esq., D.A. (Lond.).

Rev Father A. Verstraeten, S.J.

Rameschandra Majumdar, Esq., M.A., Ph.D.

Maulvi Ebrahim Khan, M.A., B.L.

Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).

Prof. Hemchandra Raychaudhuri, M.A., Ph.D.

Santoshkumar Barua, Esq., B.A., M.L.A.

Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.

Pulinbihari Mallik, Esq., M.A., B.L., M.L.A.

Maulvi Abdul Bari Chaudhuri, M.A., B.L., M.L.A.

J. W. Chippendale, Esq., M.A., B.L., M.L.A.

K. Zacharish, Esq., M.A. (Oxon.).

Jogeschandra Chakravarti, Esq., M.A.

Sailendranath Mitra, Esq., M.A.

Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

The Hon'ble the Vice-Chancellor: Ladies and Gentlemen, before the proceedings commence it is my mournful duty to bring to your notice the sad death of Mr. Girischandra Bose, M.A., M.R.A.S., who died on the 1st January of this year. He was a Fellow of this University from

The Senate then proceeded to constitute the Faculties of *Arts, Science, Law, Medicine* and *Engineering* for the year 1939-40.

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties as also the *additional* names proposed by the Members of the Senate, under Section 2, Chapter III of the Regulations, were circulated to the Members of the Senate.

A ballot was taken for election of members recommended and proposed for each of the Faculties.

Prof. Praphullachandra Mitter and Khan Bahadur Tasadduq Ahmad were requested to act as tellers.

On a scrutiny of the ballot papers it was found that all the persons recommended by the Syndicate as also those proposed for each of the Faculties had been elected to the Faculties concerned. The Hon'ble the Vice-Chancellor thereupon declared the Faculties to be constituted as follows for the year 1939-40:—

FACULTY OF ARTS

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Birajmohan Majumdar, Esq., M.A., B.L.
Dwarkanath Mitter, Esq., M.A., D.L.
W. C. Wordsworth, Esq., M.A., M.L.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
R. N. Gilchrist, Esq., C.I.E., M.A.
Prof. Harendracoomar Mookerjee, M.A., Ph.D., M.L.A.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Lt.-Col. Sir Hassan Suhrawardy, Kt., O.B.E., V.H.S., LL.D., M.D., D.Sc., F.R.C.S.I., D.P.H., F.S.M.F. (Bengal).
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Sir S. Radhakrishnan, Kt., M.A., D.Litt.
Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Barrister-at-Law.
Satischandra Ghosh, Esq., M.A.
The Hon'ble Khan Bahadur M. Aziz-ul-Huque, C.I.E., B.L., M.L.A.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
Rabindranarayan Ghosh, Esq., M.A.
Rev. J. N. Rawson, B.Sc., B.D.
Mrs. P. K. Roy, M.B.E.
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.

Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
Khan Bahadur Maulvi Alfaz-ud din Ahmad, M.A., M.L.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Khan Bahadur Abdulla Abu Sayied, M.A.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Mrs. A. N. Chaudhuri, M.A. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Surendranath Sen, M.A., Ph.D., B.Litt. (Oxon.).
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Prof. Prafullachandra Ghosh, M.A.
The Hon'ble Mr. Justice Rupendrakoomar Mitter, M.Sc., M.L.
C. F. Ball, Esq., B.A. (Lond.).
Satischandra Ray, Esq., M.A. (Lond.).
Ramaprasad Majumdar, Esq., M.A., Ph.D.
Maulvi Ebrahim Khan, M.A., B.L.
Prof. Homchandra Raychaudhuri, M.A., Ph.D.
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
Pulinbehari Mallick, Esq., M.A., B.L., M.L.A.
J. W. Chippendale, Esq., M.A., B.L., M.L.A.
Khan Bahadur Muhammad Abdul Momin, C.I.E., B.A.
K. Zachariah, Esq. M.A. (Oxon.).
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.

FACULTY OF SCIENCE

The Director of Public Instruction, Bengal.
Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Prof. Prafullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
Nibaranchandra Ray, Esq., M.A.
Lalitmohan Banerjee, Esq., M.S., F.R.C.S. (Eng.).
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., L.M., D.P.H., F.I.C., I.M.S., F.S.M.F. (Bengal).
Prof. Girindrashekhar Bose, D.Sc., M.B.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip. Ed. (Oxford), F.R.G.S., F.N.I.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.& H. (Eng.).
Rev. Father A. Verstraeten, S.J.
Syed Hidayetullah, Esq., M.Sc., Ph.D. (Lond.).
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

****

Minutes of the Faculty of Science

FOR THE YEAR 1939

No. 8

(Special)

THE 27TH FEBRUARY, 1939

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair.*

Bhupatimohan Sen Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis B.Sc., F.R.S.E.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
M. N. Bose, Esq., M.B.C.M. (Edin.), F.S.M.F. (Bengal).
Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Nibaranchandra Ray, Esq., M.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

The Faculty met to elect Added Members for the year 1939-40.

The following were the names and statements of qualifications of persons proposed for election :—

Name	*Proposed by*
1. Acharyya, Mr. Sushilkumar, M.Sc.	M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Statement of Qualifications :

Lecturer in Physics, Calcutta University.

2. Bardhan, Dr. Jogendrachandra, D.Sc.	Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Statement of Qualifications.

He took the Doctorate in Science from this University as well as from the University of London. He has since carried out a series of researches on different problems of Organic Chemistry and has thus earned a world-wide reputation. His work on the constitution of the sex hormones is a very important contribution to Chemistry. He was elected an Added Member last year and has rendered a very good service for the cause of education.

3. Bhattacharyya, Mr. Nibaranchandra, M.A., B.Sc. — Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Statement of Qualifications :

Senior Professor of Physiology, Presidency College. Has served for many years as an Added Member and rendered valuable service on the Board of Studies in Physiology.

4. Biswas, Mr. Saratlal, M.Sc. — Satyendranath Roy, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

Statement of Qualifications :

Head of the Department of Geology, Calcutta University.

5. Bose, Dr. Debendramohan, M.A., B.Sc., Ph D. — Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

Statement of Qualifications :

Director, Bose Research Institute, Calcutta.

6. Chuckerbutti, Dr. Brojendranath, D.Sc. — Satischandra Ghosh, Esq., M.A.

Statement of Qualifications :

Lecturer, Calcutta University.

7. Dutta, Dr. Snehamay, D.Sc. (Lond.), D.I.C. — Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.

Statement of Qualifications :

Professor of Physics, Presidency College, Calcutta.
He is a distinguished Physicist and author of many Original Papers.

8. Goswami, Dr. Mahendranath, M.A., Dr es.Sc. — Prof. Praphullachandra Mitter, M.A., Ph.D. (Toulouse).

Statement of Qualifications :

Head of the Department of Applied Chemistry (Mfg.) Examiner in the Universities of Calcutta, Benares, etc. Author of numerous original papers.

9. Mahalanobis, Mr. Prasantachandra, M.A. (Cantab.), B.Sc. (Cal.). — Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).

Statement of Qualifications :

Senior Professor of Physics, Presidency College, Calcutta.

10. Mr. Md. Ali Azam, M.Sc. — Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.

Statement of Qualifications :

Officer-in-charge of the Paint and Varnish Research and Training Section, Industrial Research Laboratory, Canal South Road, Calcutta; had a distinguished academic career at the Aligarh University; possesses several years' practical experience as an Industrial Chemist and in the training of students in industrial lines; specialist in Soaps, Paper-pulp and Paint and Varnishes, etc., particularly from raw materials.

11. Mitra, Mr. Ladlimohan, M.Sc. — Jitendramohan Sen, Esq., B.Sc., M Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxon.), F.R.G S., F.N.I.

Statement of Qualifications :

Senior Professor of Chemistry, Bangabasi College, Calcutta.

12. Mitra, Prof. Sisirkumar, D.Sc. — Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Statement of Qualifications :

Dr. Mitra who has been Added Member for several years is Ghose Professor of Physics of the University of Calcutta and besides being a distinguished teacher is an eminent researcher in his own line

13. Ray, Mr. Bankimchandra, M.Sc. (Leeds). — Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

Statement of Qualifications :

University Lecturer in Applied Chemistry.

14. Ray, Prof. Bidhubhushan, D.Sc. — Prof. Girindrasekhar, Bose, D.Sc., M.B.

Statement of Qualifications :

Khaira Professor of Physics, Calcutta University

15. Ray, Mr. Ramanimohan, M.Sc. — Rev. Father A. Verstraeten, S.J.

Statement of Qualifications :

Professor of Chemistry, Ripon College (late of Vidyasagar College).

16. Saha, Prof. Meghnad, D.Sc., F.R.S. — Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Statement of Qualifications :

Palit Professor of Physics, Calcutta University.

17. Sen, Prof. Nikhilranjan, D.Sc., Ph.D. — Nibaranchandra Ray, Esq., M.A.

Statement of Qualifications :

Ghose Professor of Applied Mathematics, Calcutta University.

18. Sen, Dr. Nripendranath, D.Sc. — Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Statement of Qualifications :

Lecturer, Calcutta University.

A ballot was taken and the votes recorded were found to have been as follows :—

1.	Prof. Meghnad Saha, D.Sc., F.R.S. ...	11	votes
2.	Mr. Susilkumar Acharyya, M.Sc. ...	10	,,
3.	Dr. Debendramohan Bose, M.A., B.Sc., Ph.D.	10	,,
4.	Prof. Sisirkumar Mitra, D.Sc. ...	10	,,
5.	Dr. Jogendrachandra Bardhan, D.Sc. ...	9	,,
6.	Prof. Bidhubhushan Ray, D.Sc. ...	9	,,
7.	,, Nikhilranjan Sen, D.Sc., Ph.D. ...	9	,,
8.	Mr. Nibaranchandra Bhattacharyya, M.A., B.Sc. ...	7	,,
9.	Dr. Brojendranath Chuckerbutti, D.Sc.	7	,,
10.	Mr. Ladlimohan Mitra, M.Sc. ...	7	,,
11.	,, Prasantachandra Mahalanobis, M.A. (Cantab.), B.Sc. (Cal.).	6	,,

Minutes of the Faculty of Science

FOR THE YEAR, 1939

No. 8

THE 1ST APRIL, 1939

(Special)

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.). M.Sc.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.-Chem.E.

Nibaranchandra Ray, Esq., M.A.

Muhammad Qodrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Rev. Father A. Verstraeten, S.J.

Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

Sushilkumar Acharyya, Esq., M.Sc.

Jogendrachandra Bardhan, Esq., D.Sc.

Brajendranath Chuckerbutti, Esq., D.Sc.

Lalitmohan Mitra, Esq., M.Sc.

Prof. Bidhubhushan Ray, D.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1939-40, in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Studies in Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The University of Calcutta & Acharya P.C.Ray 1906-1944

The undermentioned persons were proposed for election as members of the Boards of Studies under which their names appear :—

Board of Studies in Chemistry.

1. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
2. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F R.A.S.B., F.S.M.F. (Bengal).
3. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
4. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
5. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
6. Prof. Praphullachandra Mitter, M.A., Ph.D.
7. Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
8. Susilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F S.M.F. (Bengal).
9. Ali Karim, Esq , B Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
10. Nibaranchandra Ray, Esq., M.A.
11. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
12. Prof. Phanindranath Ghosh M.A., Ph D., Sc.D , F.Inst.P.
13. Satyendranath Ray, Esq., M B , F.R.C.S. (Edin.), D.T.M. & H. (Eng.).
14. Syed Hidayatulla, Esq., M.Sc., Ph.D. (Lond.).
15. Jogendrachandra Bardhan, Esq., D.Sc.
16. Ladlimohan Mitra, Esq., M.Sc.
17. Prof. Meghnad Saha, D.Sc., F.R.S.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE AND THE FACULTIES

FOR THE YEAR

1940

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1940

No. 1

THE 27TH JANUARY, 1940

Present :

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A., *in the Chair.*

Rohinikumar Chaudhuri, Esq., B.L., M.L.A., *Minister for Education, Assam.*

J. M. Bottomley, Esq., C.I.E., M.A. (Cantab.), *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College, Calcutta.*

Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

W. C. Wordsworth, Esq., M.A., M.L.A.

Professor Prafullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

Professor Harendracoomar Mookerjee, M.A., Ph.D., M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Professor Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Jahan Vaz Mascn, Esq., C.I.E.

Khan Bahadur Tasaddaq Ahmad, B.A., B.T., M.Ed.

Major Dabireddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O.

Sir S. Radhakrishnan, Kt., M.A., D.Litt.

Nawabzada A. S. M. Latifur Rahman, Esq., M.A. (Cantab.), Barrister-at-Law.

Professor Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Jotindramohan Ray, Esq., B.A., C.E. (Roorkee), M.I.E. (Ind.).
W. A. Jenkins, Esq., D.Sc.
Rev. Allen Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
Rabindranarayan Ghosh, Esq., M.A.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
Lt.-Col. E. W. O'G. Kirwan, C.I.E., M.Sc., M.D., F.R.C.S.I., I.M.S., F.S.M.F. (Bengal).
Khan Bahadur Maulvi Affaz-ud-din Ahmad, M.A., M.L.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Khan Bahadur Tafazzal Ahmad, B.E.
Khan Bahadur Abdullah Abu Sayied, M.A.
Bisendranath Mukerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).
Professor Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.
Professor Shahid Suhrawardy, B.A. (Oxon.).
Professor Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Bt.-Col. R. N. Chopra, C.I.E., K.H.P., M.A., M.D. (Cantab.), M.R.C.P. (Lond.).
Professor Girindrashekhar Bose, D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed (Oxford), F.R.G.S., F.N.I.
Ratanmohan Chatterjee, Esq., M.B.E., B.L.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.
Professor Praphullachandra Ghosh, M.A.
Lt.-Col. F. J. Anderson, M.C., M.B.B.S., F.R.C.S. (Eng.), I.M.S.
Rev. Father A. Verstraeten, S.J.
Syed Hedayetullah, Esq., M.Sc., Ph.D. (Lond.).
Maulvi Ebrahim Khan, M.A., B.L.
Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).
Professor Hemchandra Raychaudhuri, M.A., Ph.D.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
Pulinbihari Mallick, Esq., M.A., B.L., M.L.A.
Maulvi Abdul Bari Chaudhuri, M.A., B.L., M.L.A.
J. W. Chippendale, Esq., M.A., B.L., M.L.A.
Surendramohan Basu, Esq., B.A., Attorney-at-Law.
K. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakravarti, Esq., M.A.

The University of Calcutta & Acharya P.C.Ray 1906-1944

Satindranath Mitra, Esq., M.A.
Professor Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Lt.-Col. J. C. De, M.B., M.R.C.P., M.R.C.S., I.M.S.
Abdur Rahman Siddiqi, Esq., M.L.A.
Professor Meghnad Saha, D.Sc., F.R.S.
Miss Sunitibala Gupta, B.A., B.T., Dip. in Edn. (Leeds), M.Ed. (Leeds).
Henry Thomas, Esq., M.A., Ph.D.
Abul Qasem, Esq., M.A., B.L.
Lt.-Col. A. C. Chatterjee, M.B., D.P.H., I.M.S.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Khan Bahader Mohammed Ali, M.L.A.
Hamidul Haq Chaudhury, B.L., M.L.C.
Itrat Hossain Zaberi, Esq., M.A., Ph.D. (Edin.).
Jogischandra Sinha, Esq., M.A., Ph.D.
Ananta Hiralal Pandya, Esq., Sc.D. (Eng.), A.M.I.Struct.E., A.M.Am.Soc.C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.S.P.I.
S. N. Banerjee, Esq., Barrister-at-Law.

In the absence of the Hon'ble the Vice-Chancellor, Dr. Syamaprasad Mookerjee, M.A., B.L., D.Litt., Barrister-at-Law, M.L.A., was voted to the Chair.

1. The Hon'ble Mr. Justice Charuchandra Biswas moved that, as recommended by the Executive Committee of the Council of Post-Graduate Teaching in Arts, the appointment of Professor Harendracoomar Mookerjee, M.A., Ph.D., M.L.A., as Head of the Department of English be renewed from 1st June, 1939 to 31st May, 1940.

N.B.—The following is an extract from the Proceedings of the Executive Committee of the Council of Post-Graduate Teaching in Arts, dated the 1st December, 1939 :—

"The Secretary reported that the term of appointment of Professor H. C. Mookerjee, M.A., Ph.D., as Head of the Department of English expired on the 31st May, 1939.

Resolved—That the Executive Committee recommend that the term of appointment of Professor H. C. Mookerjee, M.A., Ph.D., as Head of the Department of English be renewed from the 1st June, 1939 to the 31st May, 1940, under Section 18(1), Chapter XI of the Regulations."

He said: It is a half *post-mortem* case. The matter could not be brought up earlier on account of the delay in obtaining sanction from Government.

Mr. Nibaranchandra Ray seconded the motion which was carried *nem con.*

2. Sir Nilratan Sircar moved that, as recommended by the Executive Committee of the Council of Post-Graduate Teaching in Science, Prof. Bireschandra Guha, D.Sc.,

4. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine and Engineering* for the year 1940-41.

Note.—A statement showing the names of persons recommended by the Syndicate for election to different Faculties as also the *Additional names* proposed by the Members of the Senate under Section 2, Chapter III of the Regulations was circulated previously.

After the names of persons recommended and proposed for election to the different Faculties had been voted on, Faculty by Faculty, the Chairman declared that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1940-41, had been constituted by the Senate as follows:—

FACULTY OF ARTS

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Professor Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prophullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
W. C. Wordsworth, Esq., M.A., M.L.A.
Professor Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Sir S. Radhakrishnan Kt., M.A., D.Litt.
Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Barrister-at-Law.
Satischandra Ghosh, Esq., M.A.
The Hon'ble Khan Bahadur M. Azizul Huque, C.I.E., B.L., M.L.A.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
Rabindranarayan Ghosh, Esq., M.A.
Khan Bahadur Maulvi Muhammad Manla Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Aparvakumar Chanda, Esq., M.A. (Oxon.).
Khan Bahadur Maulvi Muhammad Musa, M.A.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Muhammad Qudrat-i-Khoda, Esq., D.Sc. (Lond.), D.I.C.
Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Khan Bahadur Abdulla Abu Sayied, M.A.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.)
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Prof. Praphullachandra Ghosh, M.A.
The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.

C. F. Ball, Esq., B.A. (Lond.).
Satischandra Ray, Esq., M.A. (Lond.).
Rameschandra Majumdar, Esq., M.A., Ph.D.
Maulvi Ebrahim Khan, M.A., B.L.
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
Satyncharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
Khan Bahadur Muhammad Abdul Momin, C.I.E., B.A.
K. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Abdur Rahman Siddiqi, Esq., M.L.A.
Miss Sunitibala Gupta, B.A., B.T., Dip. in Edn. (Leeds), M.Ed. (Leeds).
Henry Thomas, Esq., M.A., Ph.D.
Abul Quasem, Esq., M.A., B.L.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Khan Bahadur Mohammed Ali, M.L.A.

FACULTY OF SCIENCE

The Director of Public Instruction, Bengal.
Bhupatimohan Sen, Esq., M.A. (Cantab.), M Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F N.I., F.R.A.S.B., F.S.M.F. (Bengal)
Prof Subodhchandra Mahalanobis, B Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
W. A. Jenkins, Esq., D Sc.
M. N. Bose, Esq., M.B., C M. (Edin.), F.S.M.F. (Bengal).
Susilkumar Mukherjee, Esq., L.M.S (Cal), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
Nibaranchandra Ray, Esq., M A.
Lalitmohan Banerjee, Esq., M.S., F.R C.S. (Eng.)
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Girindrasekhar Bose, D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.& H.
Rev. Father A. Verstraeten, S.J.
Syed Hidayatullah, Esq., M.Sc., Ph.D. (Lond.).
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Prof. Meghnad Saha, D.Sc., F.R.S.

Minutes of the Faculty of Science

FOR THE YEAR 1940

No. 3

THE 17TH FEBRUARY, 1940

(Special)

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Praphullachandra Mitter, M.A., Ph.D.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
Niharanchandra Ray, Esq., M.A.
Mohammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Pramathanath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Rev. Father A. Verstraeten, S.J.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

The Faculty met to elect Added Members for the year 1940-41.

The undermentioned gentlemen were proposed for election :—

Name	*Proposed by—*
Acharyya, Mr. Susilkumar, M.Sc.	M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal)

Statement of qualifications :

Lecturer in Physics, Calcutta University.

Bardhan, Dr. J. C., (Cal. and Lond.). D.Sc.	Muhammad Quadrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Statement of qualifications :

Dr. Bardhan is a very distinguished chemist. He took his Doctorate from Calcutta and went over to England where he received the Degree of D.Sc. from the London University. He had experiences of different laboratories in Europe.

His work on the synthetic organic Chemistry as well as in Biochemical subjects has been very highly appreciated. He is now employed in the University College of Science and has been rendering very useful services to the Faculty of Science for the last few years as its Added Member.

Biswas, Mr. Saratlal, M.Sc. — **Nibaranchandra Ray, Esq., M.A.**

Statement of qualifications :

Lecturer in Geology, Calcutta University.

Bose, Dr. D. M., M.A., B.Sc., Ph.D. — **Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.**

Statement of qualifications :

Director, Bose Institute.

Chuckerbutty, Dr. Brajendranath, D.Sc. — **Satischandra Ghosh, Esq., M.A.**

Statement of qualifications :

D.Sc. (Calcutta University), University Lecturer since 1918. Has been an Added Member for several years.

Guha, Professor B. C., D.Sc. (Lond.). — **(i) Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.**
(ii) Prof. Meghnad Saha, D.Sc., F.R.S.

Statement of qualifications :

Ghose Professor of Applied Chemistry. Author of a number of papers on Electrochemistry. Member of various learned societies connected with his subject.

Mahalanobis, Mr. P. C., M.A. (Cantab.), B.Sc. — **Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.**

Statement of qualifications :

Senior Professor of Physics, Presidency College and Secretary, Indian Statistical Institute. M.A. (Cantab.), B.Sc. (Cal.). Has published many papers on statistical subjects.

Mitra, Mr. Ladlimohan, M.Sc. — **Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).**

The University of Calcutta & Acharya P.C.Ray 1906-1944

Minutes of the Faculty of Arts

FOR THE YEAR 1940

No. 2

THE 17TH FEBRUARY, 1940

(Special)

Present:

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A., *Dean, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
W. C. Wordsworth, Esq., M.A., M.L.A.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Khan Bahadur Tasaddoq Ahmad, B.A., B.T., M.Ed.
Rabindranarayan Ghosh, Esq., M.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Sir Manmathanath Mukherjee, Kt., M.A., B.L.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
C. F. Ball, Esq., B.A. (Lond.)
Rameschandra Majumdar, Esq., M.A., Ph.D.
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
K. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakraverti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Henry Thomas, Esq., M.A., Ph.D.
Abdul Quasem, Esq., M.A., B.L.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Itrat Hossain Zaheri, Esq., M.A., Ph.D. (Edin.).
Jogischandra Sinha, Esq., M.A., Ph.D.
S. N. Banerjee, Esq., Barrister-at-Law.

Business:

The Faculty met to elect Added Members for the year 1940-41.

The undermentioned gentlemen were proposed for election :—

Name	*Proposed by*
Aikat, Mr. Aulyachandra, M.A.	**Prof. Praphullachandra Mitter, M.A., Ph.D.**

Statement of qualifications

M.A. (1901). Professor of English in the Vidyasagar College since 1911 and Head of the department of English.

Was Added Member in 1935 and 1936 and Member of the Boards of Studies in English and Sanskrit in 1936.

Dasgupta, Dr. A. P., M.A., Ph.D. (Lond.).	**Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.**

Statement of qualifications

M.A. Class I in History—Calcutta University.
Ph.D. in History—London University.
Sir Asutosh Mookerjee Gold Medallist.

Author of 'The Central Authority in British India' and several original papers.

Lecturer in History—Post-Graduate Department in Arts, Calcutta University, 1926-1936.

Assistant Controller of Examinations since 1935.
Served as Added Member of the Faculty of Arts since 1937.

Ganguli, Dr. Surendramohan, D.Sc.	**Sailendranath Mitra, Esq., M.A.**

Statement of qualifications

A distinguished scholar in Mathematics, author of a number of works in Pure Mathematics including Theory of Curves and Geometry of the Fourfold. Connected with several educational institutions. Added Member of the Faculty of Arts for many years.

Ghosh, Dr. Jyotirmay, M.A., Ph.D. (Edin.).	**Nibaranchandra Ray, Esq., M.A.**

Statement of qualifications

Professor of Mathematics, Presidency College, Calcutta.

Ghosh, Mr. Praphullachandra, M.A., B.Sc.	**Prof. Jitendraprasad Niyogi, M.A., Ph.D.**

The University of Calcutta & Acharya P.C.Ray 1906-1944

Statement of qualifications

M.A. in Economics, Class I, 1916; B.L., Class I, 1921. Lecturer in Economics since 1917. Rashbehari Ghose Travelling Fellow, 1929. Research Student at King's College, Cambridge, 1929-31. Secured Research Scholarship at King's College, Cambridge, for the session 1929-31.

Publications :—

(1) Theory of Profits, Calcutta University, 1933.

(2) Elementary Economics, Vol. I (Longmans), 1937.

(3) Elementary Economics, Vol. II, 1938.

Ghoshal, Dr. Upendranath, M.A., Ph.D., F.R.A.S.B.

Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Statement of qualifications

Senior Professor of History, Presidency College, and Post-Graduate Lecturer in the Departments of History, Economics and Ancient Indian History and Culture.

Calcutta University Reader for 1929. Examiner in Degree and Thesis in a number of Indian Universities.

H. E. the Governor's nominee on Selection Committee for appointment of Professor of History, Dacca University.

Honorary Secretary of the Greater India Society and Editor of the Society's Journal for the last six years.

Representative of the Calcutta University and the Royal Asiatic Society of Bengal at the International Congress of Orientalists (Brussels) and of Historical Sciences (Zurich), 1938.

Author of a number of original works on Indology which have been prescribed for Degree Examinations in several Indian Universities.

Has been an Added Member of the Arts Faculty, a Member of the History, Geography and Sanskrit Boards of the Calcutta University for a number of years.

Has been just elected a Fellow of the Royal Asiatic Society of Bengal.

Maitra, Dr. Susilkumar, M.A., Ph.D.

Prof. Sir S. Radhakrishnan, Kt., M.A., D.Litt.

Statement of qualifications

M.A. (1918), Gold Medallist in Philosophy; P. R. Scholar, 1918; Griffith Prizeman, 1921; Doctor of Philosophy, 1923. Wholetime Teacher of University M.A. Classes in Philosophy since 1914. Officiated as Head of the Department of Philosophy, Calcutta University (Post-Graduate Arts) in 1937, 1939 and 1940. President, Ethics and Religion Section, Indian Philosophical Congress, 1936. Elected Added Member of the Faculty of Arts, Calcutta University 1936, 1937, 1938 and 1939.

Author of (1) "The Ethics of the Hindus" and (2) "Madhva Logic."

Minutes of the Senate

FOR THE YEAR 1940

No. 6

THE 2ND MARCH, 1940

(Annual Convocation)

Present :

His Excellency Sir John Arthur Herbert, G.C.I.E., *Chancellor, in the Chair.*

The Hon'ble Khan Bahadur M. Azizul Huque, C.I.E., B.L., M.L.A., *Vice-Chancellor.*

Ex-Officio Fellows

J. M. Bottomley, Esq., M.A. (Oxon.), C.I.E., *Director of Public Instruction, Bengal.*

Honorary Fellow

Abdul Karim, Esq., B.A.

Ordinary Fellows

Sir Upendranath Brahmachari, Kt., Raj Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Prof. Prafullachandra Mitter, M.A., Ph.D.

,, Harendrakumar Mookerjee, M.A., Ph.D., M.L.A.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A.

Khan Bahadur Tawaddeq Ahmad, B.A., B.T., M.Ed.

Major Dabiruddin Ahmad, O.B.E., I.M.S., V.H.A.S., A.I.R.O.

Sir S. Radhakrishnan, Kt., M.A., D.Litt.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

The University of Calcutta & Acharya P C.Ray 1906-1944

Satischandra Ghosh, Esq., M.A.
W. A. Jenkins, Esq., D.Sc.
Rev. Allan Cameron, M.A., B.D.
Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Sasilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
Khan Bahadur Maulvi Muhammad Manir Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Nibaranchandra Ray, Esq., M.A.
Khan Bahadur Maulvi Alfaz-ud-din, Ahmad, M.A., M.L.A.
Mohammad Qodrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Khan Bahadur Tafazzal Ahmad, B.E
Khan Bahadur Abdullah Abu Sayied, M.A.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.),
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
O. F. Ball, Esq., B.A. (Lond.).
R. B Lal, Esq., M.B.B.S., D.P.H., D.T.M. & H., D.B.
Lt.-Col. B. J. Anderson, M.C., M.B.B.S., F.R.C.S. (Eng.), I.M.S.
Rev. Father A. Verstraeten, S.J.
Satischandra Ray, Esq., M.A. (Lond.).
Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
Pulinbihari Mallick, Esq., M.A., B.L., M.L.A.
Khan Bahadur Muhammad Abdul Momin, O.I.E., B.A.
Saurendramohan Basu, Esq., B.A., Attorney-at-Law.
K. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Lt.-Col. J. C. De, M.B., M.R.C.P., M.R.C.S., I.M.S.
Henry Thomas, Esq., M.A., Ph.D.
Lt.-Col. A. C. Chatterjee, M.B., D.P.H., I.M.S.
Khan Bahadur Mohammad Ali, M.L.A.
Itrat Hossain Zubari, M.A., Ph.D. (Edin.).
Mrs. S. C. Mookerjee
Jogischandra Sinha, M.A., Ph.D.
Ananta Hiralal Pandya, Esq., Sc.D., A.M.I.Struct.E., A.M.Am.Soc.C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.R.P.I.
S. N. Banerjee, Esq., Barrister-at-Law.

The *Ex-officio* Fellow, the Honorary Fellow and the Ordinary Fellows of the University, who previously signified their intention of attending the Convocation, assembled,

DR. SYAMAPRASAD MOOKERJEE, M.A., B.L., D.LITT., BARRISTER-AT-LAW, M.L.A., *former Vice-Chancellor*, the *Ex-officio* Fellows and the Deans of the Faculties occupied seats on the dais. Prof. Harendracoomar Mookerjee, M.A., Ph.D., M.L.A., *Benefactor of the University*, also occupied seat on the dais.

Members of the Syndicate occupied the front seats on the platform to the right and left of the dais.

Honorary Fellows and the remaining Members of the Senate occupied seats on the platform to the right and left of the dais in order of seniority according to the plan of seats previously supplied to them.

HIS EXCELLENCY THE CHANCELLOR then declared the Convocation open.

After the Degrees had been conferred by HIS EXCELLENCY THE CHANCELLOR on the candidates for the Degree of Doctor in the various Faculties, medals were awarded to their recipients.

Candidates for other Degrees were then admitted to their respective Degrees.

HIS EXCELLENCY THE CHANCELLOR then called upon the HON'BLE THE VICE-CHANCELLOR to address the Convocation.

THE HON'BLE THE VICE-CHANCELLOR then addressed the Convocation as follows:—

YOUR EXCELLENCY, LADIES AND GENTLEMEN,

May I at the outset take this opportunity of welcoming Your Excellency as the Chancellor of this University? Within the very short time that Your Excellency has been in charge of this Province, you have shown the keenest desire and anxiety to acquire first-hand knowledge of the realities of our rural life in this Province. We in this University are, therefore, anxiously looking forward that Your Excellency may soon have the opportunity to become familiar with the inner working of our

University, so that Your Excellency may help us in solving the varied problems that confront us to-day. We fervently trust that during the period of your Chancellorship, we may be able to take many steps forward in our march towards the advancement of education and learning, and we on our part assure Your Excellency that we shall always be wholeheartedly behind you in any measure that Your Excellency as Chancellor may be pleased to take up to remove our difficulties and to solve our problems.

We are grateful to Sir Mirza Ismail, K.C.I.E., O.B.E., the Dewan of Mysore, for his kindly consenting to deliver the Convocation Address of this year and we are indeed happy to have him in our midst. I am sure, all of you are anxious to hear his words of mature wisdom based as it is on his experience of such a wide field of human endeavour, and I offer him on behalf of the University our sincere and cordial welcome.

Life is so relentless in its course that it is the mournful duty of the Vice-Chancellor on every Convocation to refer to those who have departed from our midst. Mr. Biraj Mohan Majumdar, M.A., B.L., who was associated with the University Law College since its establishment in 1909, where he was the Vice-Principal from 1913 to 1935 and served this University in various capacities for many years, breathed his last on the 1st of April, 1939. The premature death of Maharaja Sir Manmathanath Raychaudhuri of Santosh, a Fellow of this University and formerly the President of the Bengal Legislative Council where he distinguished himself in establishing many sound parliamentary conventions and practices, removed a great figure

from the public life of this Province. The death of Rai Bahadur Dr. Dineschandra Sen has been a great loss to this University. His contributions to the study of the Bengali language and literature have won the admiration and respect from scholars all over the world and are well-known to-day to every student of the language. I am sure, he will always be remembered as the greatest and the pioneer worker in the field of research which he had made his life-work. The Senate and the Syndicate of the University expressed their deep sense of loss by paying their tribute of respect and gratitude to their memory, and to-day I only wish once again to refer to their services to the cause of education in our Province.

Last year I made a brief survey of the many and varied activities of our University and I do not propose to cover the same ground to-day. Members of the University know that the first Matriculation Examination under the new regulations is to be held within a fortnight. It is not necessary for me at this stage to dilate on the need or necessity of these new regulations. Men of sound judgment and experience, men who had devoted the best years of their life to the furtherance of the cause of education, first advocated these modifications in our educational system. There are still some in this Province who doubt the wisdom or utility of these changes. I would not wait to argue with them or with those who hold that the introduction of the mother-tongue as the medium of expression in the Matriculation teaching and examination is a retrograde measure. Whatever these critics may say, anyone who is in the least familiar with the

The University of Calcutta & Acharya P.C.Ray 1906-1944

psychology of the child and the adolescent will readily admit that a student so long had to grapple with two problems in his Matriculation test, firstly, the collection of ideas and the related facts to answer questions, and secondly, their translation into a language which is not the mother-tongue. Memorizing and cramming at the sacrifice of original thinking and expression of ideas in one's own language were the inevitable result of such a system. And this reform was neither sponsored in haste nor introduced in hurry. It was in September, 1922, that after full consideration the University submitted the first draft regulations for the new Matriculation Examination. The proposals were pending with Government from 1922 to 1934. Twelve years in the history of education is not a brief period for the discussion and critical examination of the proposals from every possible point of view. It was in September, 1934, barely three months after being called upon by the Right Hon'ble Sir John Anderson to be the Minister of Education, that I decided to close the chapter of protracted discussions and after obtaining the views of eminent educationists took the responsibility of finally giving sanction to these regulations on behalf of Government. Only in one respect there was a change from the draft proposal of 1922, namely that in place of Physics and Chemistry as one subject I suggested Elementary Scientific Knowledge so that the student may know something about the achievements of modern science and the phenomena of nature which he sees all around him in his every-day life. And thus we unfolded before the youthful minds the fascinating tales and stories of modern science. Who is there so dull that he will not be

The University of Calcutta & Acharya P.C.Ray 1906-1944

moved by the immense dimensions and vast distances of the stars and the planets, by the cyclic changes of the seasons, by thrilling incidents of volcanoes, land-slides and earthquakes, by the instructive pictographs of soil formation and rocks or of rich ores of minerals or of the gushing fountains of subterranean oils, and above all by the modern wonders of steam and electricity? We realised that it would not be possible for the numerous schools in Bengal, circumstanced as they were, to immediately introduce the new regulations and specially the subject of Elementary Scientific Knowledge. Another six years' time was allowed for the effective introduction of the new regulations and a further period of three years for the Elementary Scientific Knowledge. Twenty-one years will therefore pass by in 1943 when the new regulations will be in full force. May I in all humility tell our critics that the face of the world will then be almost undistinguishable compared with that of the year of grace 1922 when these regulations were first sponsored.

But there is one aspect of the question which has of late been ventilated in various places, specially by some of those who are connected with the management of schools. It is said that the new syllabus is overloaded and there are too many subjects for the Matriculation. I am afraid, the scope of the intended Matriculation standard has been completely misunderstood by these critics. When I try to analyse the reasons behind these view-points, I am inevitably brought to the conclusion that this criticism is probably based on the subconscious faith of men more in text-books than in the contents of the subjects to be taught. I beg of

The University of Calcutta & Acharya P.C Ray 1906-1944

these critics not to allow the text-books to get mastery over the subjects and the curriculum. Once you allow the text-book to get the supreme command, it is bound to be a strain on the students, the multiplicity of key books for easy mastery of different subjects will once again ruin the prospect of education; the power of original thinking will give way to cramming and " easy answers to questions " will kill the soul of education. Let it be remembered that the Matriculation Examination is usually taken by an average boy of 16 years, including two years—and in some subjects even a longer period—of instruction for the special Matriculation course and that the total period of his school instruction is about 10 years. I was a student under the old Middle English course which had to be passed at the end of the 10th to 12th year. We had to learn English, Bengali, History, Geography, Arithmetic, Geometry, Mensuration, Elementary Physics, Elementary Hygiene and Elementary Physical Geography. Nobody complained in those days that the syllabus was beyond the capacity of an average student. The subjects for the new Matriculation Examination are English, Vernacular, Classical Language, Mathematics, History and Geography with Elementary Scientific Knowledge three years after. I am yet to be convinced that the subjects are too many or that the syllabus on any of these subjects is heavy, though I may frankly say that there is possibly room for a further consideration of the syllabus of Elementary Scientific Knowledge. In any case, there is no doubt that the type of teaching must be on a different pattern from what has so long been followed if the requisite Matriculation standard has to be achieved. The University fully

The University of Calcutta & Acharya P.C.Ray 1906-1944

realised this aspect. We have over 1,500 schools in our charge including those in Assam. The organisation of better teaching in schools has therefore been the aim of this University for some years past. The payment of a minimum salary to teachers with greater security of tenure, provision of Provident Fund and other conditions are being enforced in our schools. Regulations for the revised B.T. course have also been changed recently. Unfortunately there are only two Training Colleges in Bengal and the necessity of taking some special steps with a view to training a larger number of teachers has been felt for some years past. Special classes for teachers have therefore been started by the University and only last year about 1,000 teachers were trained in the teaching of Geography, Elementary Science and other subjects. The number of teachers trained so far under this scheme within the last three years is over 2,500. It is hoped that in course of time every teacher will take advantage of the special training courses and that the teaching work in schools will achieve a higher standard than what it is to-day. But whatever that may be, a change in the standard of the Matriculation Examination was long overdue and we have introduced the new regulations only after mature deliberations and with our eyes fully open. Living in a world of competition to-day we cannot allow the best of our youths to spend ten years of early formative period in schools and in the end to make them a life-long victim of a mechanised system of education detrimental to the development of the individuality and the personality of the students.

May I briefly refer to the proposed changes in the Regulations which were accepted by the Senate

only last week and now await the approval of Government, *viz.*, the inclusion of Islamic History and Culture as a subject by itself for the M.A. Examination? It was in 1929 as a member of the University Reorganisation Committee that I first proposed the organisation of a department of Islamic studies. Immediately after I had the privilege of being appointed the Vice-Chancellor of this University, I took up the question in right earnest. I am happy to note that throughout the different stages of Committees, Conferences, Boards and Faculties, I had the unstinted support of all my colleagues in the University. May I be permitted to express my special gratitude to Dr. Syamaprasad Mookerjee and Mr. Pramathanath Banerjee who have throughout been the most enthusiastic supporters of the scheme? Speaking of the organisation of the department of Ancient Indian History and Culture, Sir Asutosh Mookerjee in his Convocation Speech of 1922 said :—

" It is the unique triumph of this University that it was the first, here or elsewhere, to establish a Chair devoted exclusively to the promotion of study and research in Ancient Indian History and Culture; and it was also the first seat of learning where the highest degree in the Faculty of Arts could be earned as the result of competent knowledge of the subject, which must be captivating to all truly patriotic Indians. Enormous are the difficulties of students and lecturers, particularly because there are so few text-books on these branches; indeed, they have never received the compliment of recognition as regular subjects of study in any seat of learning."

The University of Calcutta & Acharya P.C.Ray 1906-1944

May I to-day take this legitimate pride in the fact that once again it is the unique triumph of this University that it is the first here or elsewhere to take measures for the systematic provision for the promotion of study and research in Islamic History and Culture and that this subject had never received the compliment of recognition as a regular subject of study in any seat of learning? There is none in this great country or even outside who will not admit to-day that even though at the time when the department of Ancient Indian History and Culture was first organised there were innumerable difficulties to be surmounted, that there were very few text-books and that the materials for lectures and teaching had to be collected from a variety of sources, this department has succeeded in producing many eminent scholars whose contributions to every branch of Ancient India's culture and civilisation have won the recognition all over the world. I look forward to the time when the department of Islamic History and Culture, inspite of the many initial difficulties before us to-day, will attract many eminent scholars who will reveal to the world the rich contributions of Islam to the history of civilization. For the Muslim students this will open out an empire of knowledge vast in extent and variety suiting their special aptitude requiring years of devoted study and research and will also give them an opportunity to consecrate their intellectual attainments to the service of Islam by expounding the fascinating record of the culture of Islam to the world, thus giving them a deeper insight into the basic features of their faith and its philosophy. Living in a world to-day when mistrust, misunder-

standing and doubt dominate all aspects of human relationship, I look forward to the growth of a generation under the fostering care of this University who by their studies of the cultures of Ancient India and of Islam will succeed in ushering an era of mutual understanding and amity, where a Hindu will remain a Hindu in every sense of the term, deeply loyal to his own culture and traditions, and a Mussalman will remain a true Muslim with all his burning faith and his deep convictions, and yet they will grow up each respectful and tolerant of the other—thus creating an atmosphere of intellectual understanding in this land of diverse faiths, and leading up to the laying of the true foundations of our national life.

In connection with the problem of Muslim Education I wish once again to draw the immediate attention of Government and the public to the extreme paucity of Muslims in the science classes. I am speaking here only of the province of Bengal leaving out Assam. Within the last 10 years the annual average number of Muslims who passed the Matriculation Examination is about 2,235, but the number that passed the I.Sc. Examination is only 96, while the number of the Muslim B.Sc. graduates is only 18 on an average per year. There has practically been no rise in the number of Muslim science graduates within the last ten years. The corresponding annual average for the Hindus is 1,645 for the I.Sc. and 501 for the B.Sc. Examination. The number of Muslim M.Sc.'s is extremely small. In six years between 1933 and 1938 the total number of Muslims who passed the M.Sc. Examination is only 14 as against 650

The University of Calcutta & Acharya P.C.Ray 1906-1944

Hindus. I trust that serious attention will immediately be given to this problem with a view to encouraging the Muslim students to join the science classes in larger numbers.

I shall be failing in my duty if I do not once again draw your attention to some of our urgent needs. We have no spacious hall so that we have to hold the Convocation with great inconveniences to all; our record rooms are terribly congested and papers and files are kept almost as in godowns; the ever increasing needs of the Library require more space and we have not an inch of space for keeping more books; we do not know where to locate the Asutosh Museum which is collecting the relics of ancient Bengal; we have no space for holding the Teachers' training classes to provide for the special needs of Geography and Elementary Scientific Knowledge training classes; the Post-Graduate Arts classes require more rooms; but above all there is urgent need of expansion of our science laboratories. It is well known that the foundation of our University College of Science has led to unprecedented development of original scientific research in this country. Distinguished scientists of India like Sir P. C. Ray, Sir C. V. Raman, Prof. Meghnad Saha, Prof. J. C. Ghosh have been connected with this college during the greater part of their career; our College of Science can truly claim to be the nursery of eminent scientific and industrial research workers who have gone out to all parts of India and have given the best of their labour and knowledge to the development of scientific teaching and research in their respective spheres; many scientific workers in various departments of Government

The University of Calcutta & Acharya P.C.Ray 1906-1944

and in many industries of India have gone out of this college. The eminent members of the staff of the college have done valuable research work and only a few months back the Burma Oil Co., placed a sum of over Rs. 33,000 to facilitate colloid research and for work on soil profiles in appreciation of the valuable work done by Prof. J. N. Mukherjee in connection with the Company's work on drilling mud.

The post-war development in Europe and in almost all the other countries in the world has brought out the urgent necessity for a planned scheme of scientific research in all directions and the British Government has been spending since 1925 over one million pounds equivalent to one crore and 30 lakhs of rupees a year in supplementing the research grants of scientific workers in the British Universities alone. Many new laboratories affecting the defence and industrial prosperity of the country have in addition been opened, such as the research laboratories of the Admiralty and the Air Ministry, the National Physical Laboratory, the Chemical Research Laboratory and the Fuel Research Station. Munificent gifts have come to these laboratories such as the gift of a quarter million pounds by Henry Austin for the Cavendish Laboratory and Lord Nuffield's gift to the University of Oxford amounting to several millions of pounds. In America, over 30 million dollars are annually spent for the development of research. To our regret the departments in the University College of Science and our Science laboratories have been very unfortunate in respect of either getting special State grants or other gifts from the

The University of Calcutta & Acharya P.C.Ray 1906-1944

generous public, leaving aside the original endowments of Ghosh, Palit and Khaira and the grant by Sir P. C. Ray of his 15 years' salary. World conditions have now changed beyond recognition and if we want to live as a province worthy of our great past, to equip our students in their competition with others in the industrial and economic development of the country, it is absolutely necessary that the laboratories of the College of Science should be immediately expanded with extended scope for scientific research on a larger scale than what we are doing to-day. This development requires a considerable outlay of money and we have only to depend on our present available resources which are extremely limited. May I say once again, as I said last year, that this University can legitimately expect money from the State as well as from private persons for the necessary expansion of our laboratories and for furtherance of research works? For it is truly a national undertaking. If industries have benefited in the past from research in this University we can reasonably expect the industrial concerns to help us with their generous grants. This is a supreme question of national importance, which, if not tackled to-day, will cripple the future of our country and our province for generations to come. We are often prone to condemn those who are said to exploit our country and our province. We often forget that we do not make any national efforts to equip ourselves with scientific knowledge and research, which always form the backbone of the economic and industrial development of a nation.

Graduates of this University, I will now conclude by addressing a few words to you. To-day

The University of Calcutta & Acharya P.C.Ray 1906-1944

you have formally received your degrees and after years of study your lives have been crowned with academic success. When you go out into the world, you will find that life is much more complex than what you have experienced so far. In the struggle of life, in making headway, play your part nobly and well, worthy of the education you have received. Much will depend on how you shape your future but wherever you may be, be upright yet respectful, fearless and yet considerate of the convictions of others. Often we are prone to understand only our own point of view and not that of others; remember that the world exists for you as well as for others and you will be in the long run helping yourselves if you only give a little passage and space to others who require it. Let me conclude this with a parting message from your University in the same words as I said last year: "Be worthy of your degrees and keep the map of this province and this country before you in your life and career."

HIS EXCELLENCY then requested AMIN-UL-MULK SIR MIRZA M. ISMAIL, who was invited to address the Convocation, to deliver his address.

AMIN-UL-MULK SIR MIRZA M. ISMAIL then delivered his address as follows:—

YOUR EXCELLENCY, MR. VICE-CHANCELLOR, GRADUATES OF THE YEAR, LADIES AND GENTLEMEN,

My first duty is to express my deep sense of obligation that you should have honoured me with the privilege of addressing the Annual Convocation of this great University.

Minutes of the Faculty of Science

FOR THE YEAR 1940

No. 5

THE 16TH MARCH, 1940

(Special)

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.

Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal)

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.

Nibaranchandra Ray, Esq., M.A.

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Professor Girindrasekhar Bose, D.Sc., M.B.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

Rev. Father A. Vermeeren, S.J.

Syed Hidayetulla, Esq., M.Sc., Ph.D. (Lond.).

Professor Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

Jogendrachandra Bardhan, Esq., D.Sc.

Sarathi Biswas, Esq., M.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1940-41 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than two members for the Board of Studies in Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

The undermentioned gentlemen were proposed for election to the Boards of Studies under which their names appear:—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
3. Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B
4. Professor Prafhullachandra Mitter, M.A., Ph.D.
5. Professor Jnanendranath Mukherjee, D.Sc. (Lond.).
6. Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
7. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I., Chem.E.
8. Niharanchandra Ray, Esq., M.A.
9. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Syed Hidayetullah, Esq., M.Sc., Ph.D. (Lond.).
11. Jogendrachandra Bardhan, Esq., D.Sc.
12. Professor Bireschandra Guha, D.Sc.
13. Ladlimohan Mitra, Esq., M.Sc.

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It was found that the number of candidates for election to the undermentioned Boards of Studies did not exceed the number to be elected:—

(i) Board of Studies in Chemistry
(ii) Board of Studies in Experimental and Mathematical Physics
(iii) Board of Studies in Zoology
(iv) Board of Studies in Botany
(v) Board of Studies in Physiology
(vi) Board of Studies in Geology and Mineralogy
(vii) Board of Studies in Psychology

The undermentioned gentlemen were, thereupon, declared duly elected members of the Boards of Studies for the year 1940-41, under which their names appear:—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
3. Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
4. Prof. Prafhullachandra Mitter, M.A., Ph.D.
5. Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
6. Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
7. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
8. Niharanchandra Ray, Esq., M.A.
9. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
10. Jogendrachandra Bardhan, Esq., D.Sc.
11. Prof. Bireschandra Guha, D.Sc.
12. Ladlimohan Mitra, Esq., M.Sc.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE AND THE FACULTIES

FOR THE YEAR

1941

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1941

No. 1

THE 25TH JANUARY, 1941

Present :

The Hon'ble Sir Mohammad Azizul Haque, Kt., C.I.E., B.L., M.L.A., Khan Bahadur, *Vice-Chancellor, in the Chair.*

H. M. Bottomley, Esq., C.I.E., M.A. (Oxon.). *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College, Calcutta.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Brazil).

Sir S. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Prafullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

Hemendrakumar Mukherjee, Esq., M.A., Ph.D., M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A.

Khan Bahadur Tamizuddin Ahmad, B.A., B.T., M.Ed.

Major Dabirul Din Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.H.C.

Nawabzada A. S. M. Latif-ar-Rahman, M.A. (Cantab.), Barrister-at-Law.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

W. A. Jenkins, Esq., B.Sc.

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., M.A., Ph.D. (Cal.), Ph.D. (Cantab.).

Rabindranarayan Ghosh, Esq., M.A.

M. M. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Sasilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.

Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.

Nibaranchandra Ray, Esq., M.A.

Apurvakumar Chanda, Esq., M.A. (Oxon.).

Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.

Lt.-Col. E. W. O.'G. Kirwan, C.I.E., M.Sc., M.D., F.R.C.S.I., I.M.S., F.S.M.F. (Bengal).

Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Khan Bahadur Tafazzal Ahmad, B.E.

Khan Bahadur Abdulla Abu Sayied, M.A.

Birendranath Mookerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Prof. Muhammad Zobair Siddiqi, M.A., B.L., Ph.D. (Cantab.).

T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S.

Prof. Shahid Suhrawardy, B.A. (Oxon.).

„ Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

„ Girindrashekhar Bose, D.Sc., M.B.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.) Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Ratanmohan Chatterjee, Esq., M.B.E., B.L.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

Col. Karunakumar Chatterjee, L.M.S., F.R.C.S.I., I.T.F., F.S.M.F. (Bengal).

The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.

C. F. Ball, Esq., B.A. (Lond.).

R. B. Lal, Esq., M.B.B.S., D.P.H., D.T.M.&H., D.B.

Lt.-Col. F. J. Anderson, M.C., M.B.B.S., F.R.C.S. (Eng.), I.M.S.

Rev. Father A. Verstraeten, S.J.

Syed Hedayetullah, Esq., M.Sc., Ph.D. (Lond.).

Maulvi Ebrahim Khan, M.A., B.L.

Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).

Prof. Hemchandra Raychaudhuri, M.A., Ph.D.

Santoshkumar Basu, Esq., B.A., M.L.A.

Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.

Pulinbihari Mallick, Esq., M.A., B.L., M.L.A.

Maulvi Abdul Bari Chaudhuri, M.A., B.L., M.L.A.

J. W. Chippendale, Esq., M.A., B.L., M.L.A.

Sautendramohan Basu, Esq., B.A., Attorney-at-Law.

H. Zachariah, Esq., M.A. (Oxon.).

Jogeschandra Chakravorti, Esq., M.A.

Sailendranath Mitra, Esq., M.A.

Prof. Hiranmaykumar Mookerjee, D.Sc. (Lond.), D.I.C.

Lt.-Col. J. C. De, M.B., M.R.C.P., M.R.C.S., I.M.S.

Professor Meghnad Saha, D.Sc., F.R.S.

Henry Thomas, Esq., M.A., Ph.D.
Abul Quasem, Esq., M.A., B.L.
Lt.-Col. A. C. Chatterjee, M.B., D.P.H., I.M.S.
Hamidul Huq Chaudhury, Esq., B.L., M.L.C.
Itrat Hossain Zaberi, Esq., M.A., Ph.D. (Edin.).
Mrs. S. C. Mookerjee
Jogi-chandra Sinha, Esq., M.A., Ph.D
Ananta Hiralal Pandya, Esq., Sc.D. (Eng.), A.M.Am Soc C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.R.P.I.
S. N. Banerjee, Esq., Barrister-at-Law.
Rai Bahadur Bhadreswar Barua, B.L.

The Hon'ble Mr. Justice Charuchandra Biswas: Sir, before I move the first item I should like to take this opportunity on behalf of the Senate, to offer you Mr. Vice-Chancellor, our warmest felicitations for the Knighthood conferred on you on the last New Year's Day. The honour bestowed on you is a source of gratification as much to your friends and admirers as to yourself.

1. **The Hon'ble Mr. Charuchandra Biswas** moved that, as recommended by the Faculty of Law, Sir Nripendranath Sircar, K.C.S.I., M.A., B.L., Barrister-at-Law, formerly Advocate-General of Bengal and Law Member to the Government of India, be appointed Tagore Law Professor for the year 1911, on a honorarium of Rs. 9,000 and on the usual terms and conditions, to deliver a course of lectures on "The Law of Arbitration with Special Reference to British India."

He said: If you will refer to the Minutes of the Faculty of Law which have been circulated, you will see that the appointment is proposed to be made under Rule 5A of the Tagore Professor-ship Rules. That rule is this. We invite every year applications from candidates for the Professorship. We prescribe three subjects on any one of which it is open to the candidates to submit a synopsis of lectures. If, however, it is found upon examination that none of the introductory lectures and synopses which they submit are up to the mark, then Rule 5A contemplates that the Senate should invite a distinguished scholar to deliver the course of lectures for that year. In pursuance of that rule it is proposed to invite a Professor for the year 1911. It is very unfortunate that for the last few years the theses submitted by candidates were not found of such a high order as to justify the award. That is why recourse had to be taken

The next item was as follows:—

3. To elect *four representatives on the Syndicate* for the year 1941-42, two of whom *at least* shall be either Heads of, or Professors in, colleges affiliated to the University.

The undermentioned persons have been proposed for the election:—

Name	Proposed by
(1) Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.	(i) Apurvakumar Chanda, Esq., M.A. (Oxon.) (ii) Prof Shahid Suhrawardy, B.A. (Oxon.)
(2) The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.	Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law, M.L.A.
(3) Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.	Jitendranath Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip-Edn. (Oxford), F.R.G.S., F.N.I.
(4) Sushilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.C.M.S. (Lond.), F.R.C.S. (Edin.), F.S.M.F. (Bengal).	(i) Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.R.A.S.B., F.N.I., F.S.M.F. (Bengal). (ii) Sir Prafulla Chandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B. (iii) Sir Z. R. Zamad Suhrawardy, Kt., M.A., B.L., Barrister-at-Law. (iv) M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal). (v) Lt.-Col. J. C. De, M.B., M.R.C.P. (Lond.), M.R.C.S. (Eng.), I.M.S.
(5) Rev. Fr. A. Verstraeten, S.J. ...	(i) Nawabzada A. S. M. Latifur Rahman, M.A. (Cantab.), Barrister-at-Law. (ii) Lt.-Col. E. W. O'G. Kirwan, C.I.E., M.Sc., M.D., F.R.C.S.I., I.M.S., F.S.M.F. (Bengal).
(6) Fazlar Rahman, Esq., M.A., B.L., M.L.A.	(i) Hamidul Huq Choudhury, Esq., B.L., M.L.C. (ii) Iirat Hossain Zuberi, Esq., M.A., Ph.D. (Edin.).
(7) Mrs. S. C. Mookerjee ...	Miss Sunitibala Gupta, B.A., B.T., Dip-in-Edn. (Leeds), M.Ed. (Leeds).

The Senate first proceeded to elect two representatives on the Syndicate who were either Heads of, or Professors in, affiliated college.

A ballot was then taken among the candidates and the votes recorded were found to be as follows:—

The Hon'ble Mr. Justice Charuchandra Biswas	...	57
Khan Bahadur Tasadduq Ahmad	...	50
Rev. Father A. Verstraeten	...	81
Mr. Fazlur Rahman	...	7
Mrs. S. C. Mookerjee	...	6

The Hon'ble the Vice Chancellor thereupon declared the Hon'ble Mr. Justice Charuchandra Biswas and Khan Bahadur Tasadduq Ahmad to be duly elected representatives of the Senate on the Syndicate for the year 1941-42.

The following members were therefore elected representatives of the Senate on the Syndicate for the year 1941-42:—

Mr. Bhupatimohan Sen
The Hon'ble Mr. Justice Charuchandra Biswas
Khan Bahadur Tasadduq Ahmad
Dr. Susilkumar Mukherjee.

4. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine and Engineering* for the year 1941-42.

* *Note.*—A statement showing the names of persons *recommended* by the Syndicate for election different Faculties as also the *additional names* proposed by the members of the Senate under Section 3, chapter III of the Regulations was circulated previously to the members of the Senate.

A ballot was taken for election of members recommended and proposed for each of the Faculties.

Dr. Susilkumar Mukherjee and Mr. Nibaranchandra Ray were requested to act as Tellers.

On scrutiny of the ballot papers it was found that all the persons recommended by the Syndicate as also those proposed for each of the Faculties had been elected to the Faculties concerned. The Hon'ble the Vice Chancellor thereupon declared the Faculties to be constituted as follows for the year 1941-42:—

FACULTY OF ARTS

Bhupatimohan Sen, Esq., M.A. (Cantab.) M.Sc.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
W. C. Wordsworth, Esq., M.A., M.L.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Professor Prafullachandra Ukil, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.A.

FACULTY OF SCIENCE

The Director of Public Instruction, Bengal.
Bhupatimohan Sen, Esq., M.A (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Prof. Prafullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
W. A. Jenkins, Esq., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Sunilkumar Mukherjee, Esq., L.M.S. (Cal.), D.O. (Oxon.), D.O.M.S. (London), F.R.C.S. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.
Niharranjan Ray, Esq., M.A.
Lalitmohan Banerjee, Esq., M.S., F.R.C.S. (Eng.).
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Jnanendranath Ghosal, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Girindrasekhar Bose, D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Rev. Father A. Verstraelen, S.J.
Syed Hidayetulla, Esq., M.Sc., Ph.D. (Lond.).
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
Prof. Hemendrakumar Mukherjee, D.Sc. (Lond.), D.I.C.
Prof. Meghnad Saha, D.Sc., F.R.S.
Ananta Bhaskar Pandya, Esq., Sc.D. (Eng.), A.M.I.Struct.E., A.M.Am.Soc.C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.R.P.I.

Minutes of the Faculty of Science

FOR THE YEAR 1941

No. 4.

THE 4TH APRIL, 1941

(Special)

Present:

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair.*

Prof. Praphullachandra Mitter, M.A., Ph.D.

Satischandra Ghosh, Esq., M.A.

Nibaranchandra Ray, Esq., M.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Prof. Girindrasekhar Bose, D.Sc., M.B.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.D., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).

Rev. Father A. Verstraeten, S.J.

Syed Hidayetullah, Esq., M.Sc., Ph.D. (Lond.).

Sushilkumar Acharyya, Esq., M.Sc.

Sarallal Biswas, Esq., M.Sc.

Prasantachandra Mahalanobis, Esq., M.A. (Cantab.), B.Sc.

Lodlimohan Mitra, Esq., M.Sc.

Prof. Bibhubhushan Ray, D.Sc

The Faculty met to elect members of the Boards of Studies for the year 1941-42, in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology, and also to elect not more than *two* members for the Board of Studies in Psychology, not more than *six* members for the Board of Studies in Mathematics, not more than *six* members for the Board of Studies in Geography and not more than *three* members for the Board of Studies in Teaching.

The undermentioned persons were proposed for election to the Boards of Studies under which their names appear:—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F (Bengal).
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
4. Prof. Praphullachandra Mitter, M.A., Ph.D.
5. ,, Jnanendranath Mukherjee, D.Sc. (Lond.).
6. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
7. Nibaranchandra Ray, Esq., M.A.
8. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
9. Rev. Father A. Veratraeten, S.J.
10. Prof. Meghnad Saha, D.Sc., F.R.S.
11. Jogendrachandra Barahan, Esq, D.Sc. (Cal.), D.Sc. (Lond.).
12. Prof. Bireschandra Guha, D.Sc., Ph.D.
13. Ladlimohan Mitra, Esq., M.Sc.

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Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
4. Prof. Praphullachandra Mitter, M.A., Ph.D.
5. Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
6. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
7. Nibaranchandra Ray, Esq., M.A.
8. Muhammad Oudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
9. Prof. Meghnad Saha, D.Sc., F.R.S.

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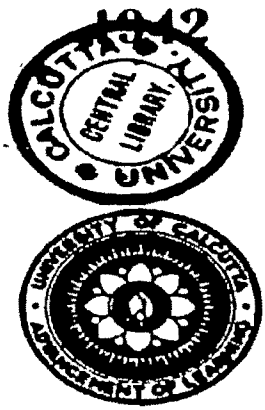
UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE AND THE FACULTIES

FOR THE YEAR



CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Science

FOR THE YEAR 1942

No. 1

THE 20TH JANUARY, 1942

(Special)

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *Dean, in the Chair*

Prof. Praphullachandra Mitter, M.A., Ph.D.
Nityanandachandra Roy, Esq. M.A.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Sunilkumar Acharyya, Esq., M.Sc.
Prof. Birendrachandra Guha, D.Sc., Ph.D.
Lalitmohan Mitra, Esq., M.Sc.
Prof. Bidhubhushan Ray, D.Sc.

The Faculty met to elect one Ordinary Fellow in place of Professor Praphullachandra Mitter, M.A., Ph.D., whose tenure of office as an Ordinary Fellow, elected by the Faculty of Science in 1937, would expire, under Section 4 of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921), on the 13th February, 1942.

Under Section 4, Sub-section (2) of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921), Professor Praphullachandra Mitter, M.A., Ph.D., is eligible for re-election.

***

The undermentioned gentleman was proposed for election :—

Name	Proposed by—
Professor Praphullachandra Mitter, M.A., Ph.D.	(1) Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B., F.N.I. (2) Nibaranchandra Ray, Esq., M.A.

Statement of Qualifications

Palit Professor and Head of the Department of Chemistry, University of Calcutta; Fellow of the Calcutta University since 1917; Author of numerous Original papers.

As only one name was proposed for the election of one Ordinary Fellow by the Faculty, Professor Praphullachandra Mitter, M.A., Ph.D., was declared duly elected an Ordinary Fellow of the University, subject to the approval of His Excellency the Chancellor.

(Confirmed)

U. N. BRAHMACHARI, *Dean.* J. CHAKRAVORTI, *Registrar.*

Minutes of the Senate

FOR THE YEAR 1942

No. 1

THE 31ST JANUARY, 1942

Present :

The Hon'ble Lt.-Col. Sir Muhammad Azizul Huque, Kt., C.I.E., B.L., M.L.A., Khan Bahadur, *Vice-Chancellor, in the Chair.*

J. M. Bottomley, Esq., C.I.E., M.A. (Oxon.), *Director of Public Instruction, Bengal.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College, Calcutta.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

W. C. Wordsworth, Esq., M.A., M.L.A.

Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

Harendracoomar Mookerjee, Esq., M.A., Ph.D., M.L.A.

The Hon'ble Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law, M.L.A.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).

Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

The Hon'ble Dr. Syamaprasad Mookerjee, M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O., F.S.M.F. (Bengal).

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

W. A. Jenkins, Esq., D.Sc.

Rev. Allan Cameron, M.A., B.D.

Surendranath Dasgupta, Esq., C.I.E., M.A., Ph.D. (Cal.), Ph.D. (Cantab.), D.Litt. (Rome).
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Nibaranchandra Ray, Esq., M.A.
Aparvakumar Chanda, Esq., M.A. (Oxon.).
Lt.-Col. E. W. O. G. Kirwan, C.I.E., M.Sc., M.D., F.R.C.S.I., I.M.S., F.S.M.F. (Bengal).
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Khan Bahadur Tafazzal Ahmad, B.E.
Birendranath Mookerjee, Esq., M.A. (Cantab.), M.I.E. (Ind.).
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S., F.S.M.F. (Bengal).
Prof. Shahid Suhrawardy, B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Prof. Girindrashekhar Bose, D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Ratanmohan Chatterji, Esq., M.B.E., B.L.
The Hon'ble Mr. Justice Rupendrakumar Mitter, M.Sc., M.L.
C. F. Ball, Esq., B.A. (Lond.).
Rev. Father A. Verstraeten, S.J.
Maulvi Ebrahim Khan, M.A., B.L.
Sasikanta Chakrabarti, Esq., B.E. M.I.P. (Lond.), M.I.E. (Ind.).
Prof. Hemchandra Raychaudhuri M.A., Ph.D.
Santoshkumar Barua, Esq., B.A. M.L.A.
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
Pulinbihari Mallick, Esq., M.A., B.L., M.L.A.
Maulvi Abdul Bari Chaudhuri, M.A., B.L., M.L.A.
J. W. Chippendale, Esq., M.A., B.L., M.L.A.
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Prof. Himadrikumar Mookerjee, D.Sc (Lond.), D.I.C.
Abdur Rahman Siddiqi, Esq., M.L.A.
Prof. Meghnad Saha, D.Sc., F.R.S.
Henry Thomas, Esq., M.A., Ph.D.
Abul Quassem, Esq., M.A., B.L. M.L.C.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Khan Bahadur Mohammed Ali, M.L.A.
Jogischandra Sinha, Esq., M.A., Ph.D
S. N. Banerjee, Esq., Barrister-at-Law.
Rai Bahadur Bhadreswar Barua, B.L.
Rev. G. H. C. Angus, M.A., B.D.
Rai Sahib Panchanan Ganguli.
Dewan Muhammad Abbab Chowdhury, B.A., M.L.A.
Rai Bijoychandra Sen, Bahadur, M.A.

The Hon'ble the Vice-Chancellor: Members of the Senate, before the Proceedings commence it is my mournful duty to refer to the sad death of the Right Hon'ble Sir Akbar Hydari. He was appointed Kamala Lecturer only

The Senate first proceeded to elect two representatives on the Syndicate who were either Heads of, or Professors in, colleges affiliated to the University.

Mr. Bhupatimohan Sen, Dr. Surendranath Dasgupta and Rev. Father A. Verstraeten, S.J., satisfied the above condition. A ballot was taken amongst them and the votes recorded were found to have been as follows:—

Mr. Bhupatimohan Sen	...	60
Rev. Father A. Verstraeten, S.J.	...	50
Dr. Surendranath Dasgupta	...	17

The Hon'ble the Vice-Chancellor thereupon declared Mr. Bhupatimohan Sen and Rev. Father A. Verstraeten, S.J., duly elected representatives of the Senate on the Syndicate for the year 1942-43.

The Senate then proceeded to elect the remaining two representatives on the Syndicate and Dr. Surendranath Dasgupta having expressed his desire not to stand as a candidate for the election his name was withdrawn from the election.

The Hon'ble the Vice-Chancellor thereupon declared the remaining two candidates, viz., the Hon'ble Mr. Justice Charuchandra Biswas and Khan Bahadur Tasadduq Ahmad duly elected representatives of the Senate on the Syndicate for the year 1942-43.

The following four members were, therefore, duly elected representatives of the Senate on the Syndicate for the year 1942-43:—

Mr. Bhupatimohan Sen, M.A. (Cantab.) M.Sc.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Rev Father A. Verstraeten, S.J.

2. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine* and *Engineering* for the year 1942-43.

Note.—A statement showing the names of persons *recommended* by the *Syndicate* for election to different Faculties as also the *additional names* proposed by the members of the Senate under Section 2, Chapter III of the Regulations was circulated previously.

After the names of persons recommended and proposed for election to the different Faculties had been voted on Faculty by Faculty, the Hon'ble the Vice-Chancellor

The University of Calcutta & Acharya P.C.Ray 1906-1944

declared that the Faculties of Arts, Science, Law, Medicine and Engineering for the year 1942-43, had been constituted by the Senate as follows :—

FACULTY OF ARTS

1. Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
2. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
3. Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
4. W. C. Wordsworth, Esq., C.I.E., M.A., M.L.A.
5. Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
6. Prof. Praphullachandra Mitter, M.A., Ph.D.
7. Manmathanath Ray, Esq., M.A., B.L., M.L.A.
8. The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
9. Harendracoomar Mookerjee, Esq., M.A., Ph.D., M.L.A.
10. The Hon'ble Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law, M.L.A.
11. Ramaprasad Mookerjee, Esq., M.A., B.L.
12. Rai Bahadur Prof. Khagendranath Mitra, M.A.
13. Pramathanath Banerjee, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
14. The Hon'ble Dr. Syamaprasad Mookerjee, M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.
15. Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
16. Sir S. Radhakrishnan, Kt., M.A., D.Litt.
17. Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
18. Satischandra Ghosh, Esq., M.A.
19. The Hon'ble Lt.-Col. Sir Mohammad Azizul Huque, Kt., C.I.E., B.L., M.L.A., Khan Bahadur.
20. Rev. Allan Cameron, M.A., B.D.
21. Surendranath Dasgupta, Esq., C.I.E., M.A., Ph.D. (Cal.), Ph.D. (Cantab.), D.Litt. (Rome).
22. Rabindranarayan Ghosh, Esq., M.A.
23. Khan Bahadur Maulvi Muhammad Manir Baksh, B.A.
24. Rev. C. S. Milford, M.C., M.A.
25. Nibaranchandra Ray, Esq., M.A.
26. Apurvakumar Chanda, Esq., M.A. (Oxon.).
27. Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.
28. Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
29. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
30. Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
31. Sir Manmathanath Mukherjee, Kt., M.A., B.L.
32. Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
33. Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
34. Prof. Shahid Suhrawardy, B.A. (Oxon.).
35. Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
36. Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
37. The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.
38. C. P. Ball, Esq., B.A. (Lond.).
39. Rameschandra Majumdar, Esq., M.A., Ph.D.
40. Maulvi Ebrahim Khan, M.A., B.L.
41. Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
42. Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
43. S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
44. Maulvi Abdul Bari Chaudhuri, M.A., B.L., M.L.A.
45. K. Zachariah, Esq., M.A. (Oxon.).
46. Jogeschandra Chakravorti, Esq., M.A.
47. Sailendranath Mitra, Esq., M.A.

48. Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
49. Abdur Rahaman Siddiqi, Esq., M.L.A.
50. Miss Sumtibala Gupta, B.A., B.T., Dip. in Edn. (Leeds), M.Ed. (Leeds.).
51. Henry Thomas, Esq., M.A., Ph.D.
52. Abul Quasem, Esq., M.A., B.L., M.L.C.
53. Khan Bahadur Mohammed Ali, M.L.A.
54. Itrat Hossain Zuberi, Esq., M.A., Ph.D. (Edin.).
55. Mrs S. C. Mookerjee.
56. Jogischandra Sinha, Esq., M.A., Ph.D.
57. S. N. Banerjee, Esq., Barrister-at-Law.
58. Rev. G. H. C. Angus, M.A., B.D.
59. Khan Bahadur Khalifa Mohammed Asadullah, B.A., F.L.A.
60. Rai Bahadur Bijaychandra Sengupta, M.A.

FACULTY OF SCIENCE

1. Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
2. Sir Nilratan Sircar, Kt., M.A., M.D., D.Sc., LL.D., D.C.L., F.S.M.F. (Bengal).
3. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
4. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
5. Sir Prafhullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
6. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
7. Prof. Prafhullachandra Mitter, M.A., Ph.D.
8. Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
9. Satischandra Ghosh, Esq., M.A.
10. W. A Jenkins, Esq., D.Sc.
11. M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
12. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
13. Nibaranchandra Ray, Esq., M.A.
14. Lalitmohan Banerjee, Esq., M.S., F.R.C.S. (Eng.).
15. Muhammad Qudrat-i Khuda, Esq., D.Sc. (Lond.), D.I.C.
16. Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
17. Prof. Girindrasekhar Bose, D.Sc., M.B.
18. Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
19. Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M. & H. (Eng.).
20. Rev. Father A. Verstraeten, S.J.
21. Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
22. Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
23. Prof. Meghnad Saha, D.Sc., F.R.S.
24. Ananta Hiralal Pandya, Esq., Sc.D. (Eng.), A.M.I.Struct.E., A.M.Am. Soc.C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.R.P.I.

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Minutes of the Faculty of Science

FOR THE YEAR 1942

No. 4

THE 28TH MARCH, 1942

(Special)

Present :

Professor Meghnad Saha, D.Sc., F.R.S., *Dean, in the Chair*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Satischandra Ghosh, Esq., M.A.
Nibaranchandra Ray, Esq., M.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Girindrasekhar Bose, D.Sc., M.B.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Rev. Father A. Verstraeten, S.J.
Prof. Himadrikumar Mookerjee, D.Sc., (Lond.), D.I.C.
Susilkumar Acharyya, Esq., M.Sc.
Saratlal Biswa, Esq., M.Sc.
Prasantachandra Mahalanobis, Esq., M.A. (Cantab.), B.Sc.
Ladlimohan Mitra, Esq., M.Sc.

The Faculty met to elect members of the Boards of Studies for the year 1942-43 in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany and (6) Physiology and also to elect not more than two members for the Board of Studies in Psychology, not more than six members for the Board of Studies in Mathematics, not more than six members for the Board of Studies in Geography and not more than three members for the Board of Studies in Teaching.

10—1442B

The undermentioned persons were proposed for election to the Boards of Studies under which their names appear :—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
3. Professor Praphullachandra Mitter, M.A., Ph.D.
4. Professor Jnanendranath Mukherjee, D.Sc. (Lond.).
5. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
6. Nibaranchandra Ray, Esq., M.A.
7. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
8. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
9. Professor Meghnad Saha, D.Sc., F.R.S.
10. Professor Bireschandra Guha, Ph.D., D.Sc.
11. Ladlimohan Mitra, Esq., M.Sc.
12. Professor Priyadaranjan Ray, M.A., F.N.I.

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The Dean, thereupon, declared the undermentioned gentlemen duly elected members of the Boards of Studies for the year 1942-43, under which their names appear :—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F S.M.F. (Bengal).
2. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C S., F.R.A.S.B.
3. Professor Praphullachandra Mitter, M.A., Ph.D.
4. Professor Jnanendranath Mukherjee, D.Sc. (Lond.).
5. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.
6. Nibaranchandra Ray, Esq., M.A.
7. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
8. Professor Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
9. Professor Meghnad Saha, D.Sc., F.R.S.
10. Professor Bireschandra Guha, Ph.D., D.Sc.
11. Ladlimohan Mitra, Esq., M.Sc.
12. Professor Priyadaranjan Ray, M.A., F.N.I.

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Minutes of the Faculty of Science

FOR THE YEAR 1942

No. 6

THE 15TH SEPTEMBER, 1942

(Special)

Present :

Professor Meghnad Saha, D.Sc., F.R.S., *Dean, in the Chair*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Praphullachandra Mitter, M.A., Ph.D.

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

M. N Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I. Chem.E.

Lalitmohan Banerjee, Esq., M.S., F.R.C.S. (Eng.).

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Prof. Girindrasekhar Bose, D.Sc., M.B.

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Reg.).

Rev. Father A. Verstraeten, S.J.

Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

Prof. Himadrikumar Mookerjee, D.Sc., (Lond.), D.I.C.

Before the Proceedings commenced the Faculty expressed their deep sense of sorrow at the sudden death of their colleague, Mr. Nibarnnchandra Ray, M.A.

The Faculty then proceeded to elect a representative on the Syndicate for the remaining period of the current session (1942-43) in place of Mr. Nibaranchandra Ray, M.A., who died on the 24th August, 1942.

The undermentioned gentlemen were proposed for election :—

Name	*Proposed by—*
1. Prof. Praphullachandra Mitter, M.A., Ph.D.	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B. Prof. Himsrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
2. Muhammad Qudrat-i-Khuda, Esq., D.Sc., D.I.C. (Lond.).	Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc. Ali Karim, Esq., B.Sc., Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E. Ananta Hiralal Pandya, Esq., Sc.D. (Reg.), A.M.I.Struct.E., A.M.Am.Soc.C.E., A.M.Inst.W., A.M.I.E. (Ind.), M.A.R.P.I.
3. Prof. Meghnad Saha, D.Sc., F.R.S.	Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

In this connection the Registrar placed before the Faculty a letter from Professor Praphullachandra Mitter, M.A., Ph.D., intimating his desire not to stand for the election.

A ballot was thereupon taken among the remaining candidates and the votes recorded were found to have been as follows :—

Dr. Muhammad Qudrat-i-Khuda ... 4 votes
Prof. Meghnad Saha ... ... 11 ,,

Prof. Meghnad Saha was, therefore, declared duly elected member of the Syndicate for the remaining period of the current session (1942-43).

(Confirmed)

M. N. SAHA,
Dean.

J. CHAKRAVORTI,
Registrar.

UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE AND THE FACULTIES

FOR THE YEAR

1943

CALCUTTA UNIVERSITY PRESS

Minutes of the Senate

FOR THE YEAR 1943

No. 1

THE 30TH JANUARY, 1943

Present :

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal), *Vice-Chancellor, in the Chair.*

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc., *Principal, Presidency College, Calcutta.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

W. C. Wordsworth, Esq., C.I.E., M.A., M.L.A.

Prof. Praphullachandra Mitter, M.A., Ph.D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

The Hon'ble Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law, M.L.A.

Rameprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Johan Van Manen, Esq., C.I.E.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O., F.S.M.F. (Bengal).

Satischandra Ghosh, Esq., M.A.

W. A. Jenkins, Esq., D.Sc.

Rev. Allan Cameron, M.A., B.D.

M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.Chem.E.

Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.

Rev. C. S. Milford, M.C., M.A.

Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).

Prof. Shahid Suhrawardy, B.A. (Oxon.).

Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

***

Satyendranath Roy, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H (Eng.).

Lt.-Col. F. J. Anderson, C.I.E., M.C., M.B.B.S., F.R.C.S. (Eng.), I.M.S., F.S.M.F. (Bengal).

Rev. Father A. Verstraeten, S.J.

Khan Bahadur Maulvi Ebrahim Khan, M.A., B.L.

Sasikanta Chakrabarti, Esq., B E., M.I.P. (Lond.), M.I.E. (Ind).

Prof. Hemchandra Raychaudhuri, M.A., Ph.D.

S. Wajid Ali, Esq , B.A. (Cantab.), Barrister-at-Law.

J. W. Chippendale, Esq., M.A., B L., M.L.A.

Jogeschandra Chakravorti, Esq., M.A.

Sailendranath Mitra, Esq., M.A.

Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.

Henry Thomas, Esq., M.A., Ph.D.

Abul Quasem, Esq., M.A., B.L., M.L.C.

Fazlur Rahman, Esq., M.A., B.L., M.L.A.

Khan Bahadur Mohammed Ali, M.L.A.

Itrat Hossain Zoberi, Esq., M.A., Ph.D. (Edin.).

Jogischandra Sinha, Esq., M.A., Ph.D.

S. N. Banerjee, Esq., Barrister-at-Law.

Rai Bahadur Bhadreswar Barua, B.L.

Khan Bahadur Khalifa Mohammad Asadullah, B.A., F.L.A.

Sir Abdul Halim Ghuznavi, Kt., M.L.A.

Dewan Muhammad Abbab Chowdhury, B.A., M.L.A.

Khan Bahadur Badiur Rahman, B.Sc., B.T., M.Ed. (Leeds).

Umaprasanna Basu, Esq., M B., F.R.C.P.I., F.S.M.F. (Bengal)

Capt. Mahmood Hasan, Khan Bahadur, M.A., D.Phil. (Oxon.), Barrister-at-Law, M.R.S.L. (Lond.).

Harahanath Sen, Esq., M.Sc.

Narendranath Sarkar, Esq., M.A., F.S.A.A.

Amulyakrishna Das, Esq., B.Sc. (Cal.), B.Sc. (Tech.) (Manchester), A M.I.E.E.

The Vice-Chancellor: Members of the Senate, since we last met we have lost one of the prominent members of the Senate, Sir Manmathanath Mukherji. He died on the 6th December, 1942. He was an Ordinary Fellow of the Senate since 1932 and for some time he was an *ex-officio* Fellow of the Senate by virtue of his being the acting Chief Justice of the High Court of Judicature at Fort William in Bengal. Sir Manmathanath was also a member of the Faculties of Arts and Law and President of the Board of Studies in Law for some years. He was an eminent scholar and jurist of very wide reputation. He was invited to deliver the Tagore Law lectures for the year 1935. Those of us who came in contact with him will always remember his kindly disposition and amiable temperament. His courtesy and manner endeared him to all who came in contact with him. Even before he retired

5. To constitute the *Faculties of Arts, Science, Law, Medicine* and *Engineering* for the year 1943-44.

Note.—A statement showing the names of persons *recommended by the Syndicate* for election to different Faculties as also the *additional names* proposed by the members of the Senate under Section 2, Chapter III of the Regulations was circulated previously.

The Faculties of Arts, Science, Law, Medicine and Engineering were constituted as follows:—

FACULTY OF ARTS

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
W. C. Wordsworth, Esq., C.I.E., M.A., M.L.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
Harendracoomar Mookerjee, Esq., M.A., Ph.D., M.L.A.
The Hon'ble Mr. Pramathanath Banerjee, M.A., B.L., Barrister-at-Law, M.L.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Rai Pramodechandra Datta, Bahadur, C.I.E., B.L.
Sir S. Radhakrishnan, Kt., M.A., D.L., D.Litt.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
Rev. Allan Cameron, M.A., B.D.
Prof. Surendranath Dasgupta, C.I.E., M.A., Ph.D. (Cal.), Ph.D. (Cantab.), D.Litt. (Rome).
Rabindranarayan Ghosh, Esq., M.A.
Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.
Rev. C. S. Milford, M.C., M.A.
Apurvakumar Chanda, Esq., M.A. (Oxon.).
Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A.
Prof. Shahid Suhrawardy, B.A. (Oxon.)
Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.
C. F. Ball, Esq., B.A. (Lond.).
Rev. Fr. A. Vanstraelen, S.J.
Khan Bahadur Maulvi Ebrahim Khan, M.A., B.L.
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
K. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.

Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Abdur Rahaman Siddiqi, Esq., M.L.A.
Prof. Meghnad Saha, D.Sc., F.R.S.
Miss Sunitibala Gupta, B.A., B.T., Dip. in Edn. (Leeds), M.Ed. (Leeds).
Henry Thomas, Esq., M.A., Ph.D.
Abul Quasem, Esq., M.A., B.L., M.L.C.
Khan Bahadur Mohammed Ali, M.L.A.
Itrat Hossain Zuberi, Esq., M.A., Ph.D. (Edin.).
Mrs. S. C. Mookerjee.
Jogischandra Sinha, Esq., M.A., Ph.D.
S. N. Banerjee, Esq., Barrister-at Law.
Rev G. H. C. Angus, M.A., B.D.
Khan Bahadur Khalifa Mohammed Asadullah, B.A., F.L.A.
Khan Bahadur Bazlur Rahman B.Sc., B.T. (Cal.), M.Ed. (Leeds).
A. K. M. Zakariah, Esq.
Captain Masood Hasan Khan Bahadur, M.A., D.Phil. (Oxon.), Barrister-at Law, M.R.S.L. (Lond.).
Narendranath Sarkar, Esq., M.A., F.S.A.A.
The Hon'ble Mr. Justice Radhabinode Pal, M.A., D.L.

FACULTY OF SCIENCE

Bhupatimohan Sen, Esq., M.A. (Cantab.), M.Sc.
Sir Nilratan Sircar, Kt., M.A., M.D., D.Sc., LL.D., D.C.L., F.S.M.F. (Bengal).
Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).
Prof. Prafullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).
Satischandra Ghosh, Esq., M.A.
W. A. Jenkins, Esq., C.I.E., D.Sc.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I.C.E., M.E.
Lalitmohan Banerjee, Esq., M.S. (Cal.), F.R.C.S. (Eng.).
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Girindrashekhar Bose, D.Sc., M.B.
Jitendramohan Sen Esq., B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).
Rev. Father A. Verstraeten, S.J.
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Prof. Meghnad Saha, D.Sc., F.R.S.
Ananta Hiralal Pandya, Esq., Sc.D. (Eng.), A.M.I.Struct.E., A.M.Am.Soc.C.E., A.M.I.E. (Ind.), A.M.Inst.W., M.A.R.P.I.
Harshanath Sen, Esq., M.Sc.

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Minutes of the Faculty of Science

FOR THE YEAR 1943

No. 4

THE 3RD APRIL, 1943

(Special)

Present :

Prof. Meghnad Saha, D.Sc., F.R.S., *Dean, in the Chair.*

Satischandra Ghosh, Esq., M.A.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F Inst P.
Jitendramohan Sen, Esq., B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.
Rev. Father A. Verstraeten, S.J.
Prof. Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C.
Sarathal Biswas, Esq., M.Sc.
Brojendranath Chuckerbutty, Esq., D.Sc.
Prof. Biraschandra Guha, M.Sc., Ph.D., D.Sc.
Ladlimohan Mitra, Esq., M.Sc.
Prof. Priyadaranjan Ray, M.A., F.N.I.

The Faculty met to elect members of the Boards of Studies for the year 1943-44, in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, (6) Physiology and also to elect not more than *two* members for the Board of Studies in Psychology, not more than *six* members for the Board of Studies in Mathematics, not more than *six* members for the Board of Studies in Geography and not more than *three* members for the Board of Studies in Teaching.

The undermentioned gentlemen were proposed for election to the Boards of Studies under which their names appear :—

Board of Studies in Chemistry

1. Sir Nilratan Sircar, Kt., M.A., M.D., D.Sc., LL.D., D.C.L., F.S.M.F. (Bengal)
2. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
3. Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.
4. Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
5. Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

6. Prof. Praphullachandra Mitter, M.A., Ph.D.
7. Prof. Joanendranath Mukherjee, D.Sc. (Lond.).
8. M. N. Bose, Esq., M.B., C.M. (Edin.), F S.M F. (Bengal).
9. Ali Karim, Esq., B.Sc. (Cal.), Ph.D. (Lond.), D.I.C., A.I.C., A.M.I., Chem.E.
10. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
11. Prof Phanindranath Ghosh, M.A., Ph.D., Sc D., F.Inst.P.
12. Prof. Meghnad Saha, D.Sc., F.R.S.
13. Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc.
14. Ledlimohan Mitra, Esq., M.Sc.
15. Prof. Priyadaranjan Ray, M.A., F.N.I.

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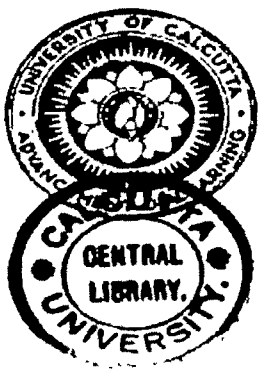
UNIVERSITY OF CALCUTTA

MINUTES OF THE SENATE AND THE FACULTIES

FOR THE YEAR

1944



CALCUTTA UNIVERSITY PRESS

Minutes of the Faculty of Science

FOR THE YEAR 1944

No. 1

THE 10TH JANUARY, 1944

(Special)

Present :

Prof. Meghnad Saha, D.Sc., F.R.S., *Dean, in the Chair.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Prof. Jnanendranath Mukherjee, C.B.E., D.Sc. (Lond.), F.R.A.S.B., F.N.I.

Satischandra Ghosh, Esq., M.A.

M. N. Bose, Esq., M.B.C.M., (Edin.), F.S.M.F. (Bengal).

Lalitmohan Banerjee, Esq., M.S. (Cal.), F.R.C.S. (Eng.).

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Prof. Girindrasekhar Bose, D.Sc., M.B.

Rai Bahadur Jitendramohan Sen, B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

Rev. Father A. Verstraeten, S.J.

Kumudsankar Ray, Esq., B.Sc. (Edin.), M.A., M.B., Ch.D. (Edin.), F.S.M.F. (Bengal).

Prof. Bireschandra Guha, M.Sc., Ph.D., D Sc. (Lond.).

Sushilkumar Acharyya, Esq., M.Sc.

Sarotlal Biswas, Esq., M.Sc.

Brojendranath Chackerbutty, Esq., D.Sc.

Ladhumohan Mitra, Esq., M.Sc.

Prof Priyadaranjan Ray, M.A., F.N.I.

The Faculty met to elect *one* Ordinary Fellow in place of Professor Himadrikumar Mookerjee, D.Sc. (Lond.), D.I.C., whose tenure of office as an Ordinary Fellow, elected by the Faculty of Science in 1939, would expire, under Section 4 of the Indian Universities Act, 1904 (VIII of 1904), as amended by the Calcutta University Act, 1921 (VII of 1921), on the 16th January, 1944.

The undermentioned gentlemen were proposed for the election :—

Name	Proposed by—
1. Brahmachari, Dr. Phanindranath, M.Sc., M.D.	(i) M. N. Bose, Esq., M.B.C.M. (Edin.), F.S.M.F. (Bengal). (ii) Prof. Meghnad Saha, D.Sc., F.R.S.

Statement of Qualifications

Dr. Brahmachari is a distinguished graduate of the Calcutta University. M.Sc.—First in the First Class in Physiology. B.Sc —First Class Honours in Chemistry. M.D., M.B.—First in Medicine with Honours. Recipient of the Premchand Roychand Studentship in Physiology.

He has specialised in the study of the Physiology of the heart. The combination of knowledge of higher Physiology and higher Medicine in the same individual is rare in India. Dr. Brahmachari will be extremely useful in the Faculty of Science in matters concerning the application of Physiology to Medicine.

2. Mitra, Prof. Sisirkumar, M.B.E., D.Sc., F.N.I.. Professor Praphullachandra Mitter, M.A., Ph.D.

Statement of Qualifications

D.Sc. (Calcutta and Paris); M.B.E., F.N.I., Sir Rashbehary Ghose, Professor of Physics. Vice-President, National Institute of Sciences of India: Vice-President Indian Physical Society: Vice-President, Indian Association for Cultivation of Science: Chairman, Radio Research Committee of the Board of Scientific and Industrial Research. Has been an Added Member of the Faculty of Science for many years.

3. Mookerjee, Prof. Himadrikumar, D Sc. (Lond.), D.I.C., F.N.I. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Statement of Qualifications

M.Sc. (Gold Medallist, 1924), D.Sc. (Lond.), D.I.C., F N.I, Sir Nilratan Sircar Professor and Head of the Department of Zoology. Sara Marshall Scholar (1927-28 and 1928-29). Ghose Travelling Fellow (1928-29); President, Zoology Section, Indian Science Congress, 1936. Author of numerous original papers. Elected Member of the Senate since 1939.

The Registrar placed before the Faculty in this connection letters from Professor Sisirkumar Mitra and Professor Himadrikumar Mookerjee, expressing their desire not to stand as candidates for the election.

Dr. Phanindranath Brahmachari being then the only candidate for the election of *one* Ordinary Fellow by the Faculty of Science, he was declared duly elected an Ordinary Fellow, subject to the approval by His Excellency the Chancellor.

(Confirmed.)

M. N. SAHA,
Dean.

J. CHAKRAVORTI,
Registrar.

Minutes of the Senate

FOR THE YEAR 1944

No. 1.

THE 29TH JANUARY, 1944

Present :

Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal), *Vice-Chancellor, in the Chair.*

W. A. Jenkins, Esq., C.I.E., D.Sc., *Director of Public Instruction, Bengal.*

Apurvakumar Chanda, Esq., M.A. (Oxon.), *Principal, Presidency College.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

W. C. Wordsworth, Esq., C.I.E., M.A., M.L.A.

Prof. Praphullachandra Mitter, M.A., Ph D.

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.

Rai Bahadur Professor Khagendranath Mitra, M.A.

Prabhatnath Banerjee, Esq., M.A. (Cantab.), M I.R. (Ind.).

Pramathanath Banerjee, Esq. M A., D.Sc., Barrister-at-Law, M.L.A.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O., F.S.M.F. (Bengal).

Rai Pramodechandra Dutta, Bahadur, C.I.E., B.L.

Sir S. Radhakrishnan, Kt., M.A., D.Litt., D.L.

Satischandra Ghosh, Esq., M.A.

M. N. Bose, Esq., M.B.C.M. (Edin.), F.S.M.F. (Bengal).

Khan Bahadur Maulvi Muhammad Maula Baksh, B.A.

Lt.-Col. E. W. O'G. Kirwan, C I.E., M.Sc., M.D., F.R.C.S.I., I.M.S., F.S M.F. (Bengal).

Lalitmohan Banerjee, Esq., M.S. (Cal.), F.R.C.S. (Eng.).

Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.

Professor Phanindranath Ghosh, M.A., Ph D., Sc.D., F.Inst.P.

Sir Birendranath Mookerjee, Kt., M.A. (Cantab.), M.I.E. (Ind.).

Professor Muhammad Zubair Siddiqi, M A., B.L., Ph D. (Cantab.).

Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B A.

T. Ahmed, Esq., M.B., D.O.M.S. F.R.C.S., F.S.M F. (Bengal).

Professor Shahid Suhrawardy, B.A. (Oxon.).

Professor Jitendraprasad Niyogi, M.A. Ph.D. (Lond.).

Rai Bahadur Jitendramohan Sen, B.Sc M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Ratanmohan Chatterjee, Esq. M.B.E. B.L.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).
C. F. Ball, Esq., B.A. (Lond.).
Rev. Father A. Verstraeten, S.J.
Sasikanta Chakrabarti, Esq., B.E., M.I.P. (Lond.), M.I.E. (Ind.).
Professor Hemchandra Raychaudhuri, M.A., Ph.D.
S. Wajed Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
J. W. Chippendale, Esq., M.A., B.L., M.L.A.
C. V. Miller, Esq, A.C.G.I., B.Sc, A.M.I.Struct.E.
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Hamidul Huq Chaudhury, Esq., B.L., M.L.C.
Mrs. S. C. Mookerjee.
Jogischandra Sinha, Esq., M.A., Ph.D.
S. N. Banerjee, Esq., Barrister-at-Law.
Raj Bahadur Bhadreswar Barua B.L.
Khan Bahadur Khalifa Mohammad Asadullah, B.A., F.L.A.
Debiprasad Khaitan, Esq., M.A., B.L., M.L.A.
Sir Abdul Halim Ghuznavi, Kt., M.L.A.
Khan Sahib Dewan Muhammad Ahbab Chowdhury, B.A., M.L.A.
Khan Bahadur Badiur Rahman, B.Sc., B.T., M.Ed. (Leeds).
Umaprasanna Basu, Esq., M.B., F.R.C.P.I., F.S.M.F. (Bengal).
A. K. M. Zakariah, Esq.
Captain Mahmood Hasan, Khan Bahadur, M.A., D.Phil. (Oxon.). Barrister-at-Law, M.R.S.L. (Lond.).
Narendranath Sarkar, Esq., M.A., F.S.A.A.
Kumudsankar Ray, Esq., B.Sc. (Edin.), M.A., M.B., Ch.B. (Edin.), F.S.M.F. (Bengal).
Professor Bireschandra Guha, M.Sc., Ph.D., D.Sc.
Lt.-Col. H. E. Murray, M.D., M.Ch., F.R.C.O.G., I.M.S.
Maulvi Muhammad Amjad Ali, B.A., LL.B. (Aligarh), M.L.A.
Sneharmay Dutt, Esq., D.Sc. (Lond.), D.I.C., F.N.I.
Subodh Mitra, Esq., M.B. (Cal.), M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G (Eng.).
Jatindrakisor Chaudhuri Esq., M.A.
Miss F. E. Grose, M.A. (Cantab.)
Phanindranath Brahmachari, Esq., M.Sc., M.D.

The Vice-Chancellor: Members of the Senate, before we take up the ordinary business of this afternoon it is my mournful duty to refer to the death of two of our Fellows both of whom died in harness. Both of them had been active members of the Senate. Mr. Rabindranarayan Ghosh had been a member of the Senate since 1928. He was re-nominated an Ordinary Fellow in 1937 and in July, 1942. He had been the Principal of one of the biggest non-official colleges, namely, the Ripon College, since 1931. As a member of the Board of Studies in English, Sanskritic Languages, Palit Governing Body and Ghose Board, he had contributed not a little towards the success

Out of the five names proposed, Mr. Apurvakumar Chanda and Rev. Fr. A. Verstraeten satisfied the above condition.

The Vice-Chancellor thereupon declared Mr. Apurvakumar Chanda and Rev. Fr. A Verstraeten to be duly elected representatives of the Senate on the Syndicate for the year 1944-45.

The remaining candidates for the other two seats were the Hon'ble Mr. Justice Charuchandra Biswas, Khan Bahadur Tasadduq Ahmad and Mr. Abdur Rahman Siddiqi.

A ballot was then taken among the candidates and the votes recorded were found to have been as follows:—

The Hon'ble Mr. Justice Charuchandra Biswas		56 votes
Khan Bahadur Tasadduq Ahmad	...	51 ,,
Mr. Abdur Rahman Siddiqi	...	20 ,,

The Vice-Chancellor thereupon declared the Hon'ble Mr. Justice Charuchandra Biswas and Khan Bahadur Tasadduq Ahmad to be duly elected representatives of the Senate on the Syndicate for the year 1944-45.

The following members were, therefore, elected representatives of the Senate on the Syndicate for the year 1944-45:—

Mr. Apurvakumar Chanda
The Hon'ble Mr. Justice Charuchandra Biswas
Khan Bahadur Tasadduq Ahmad
Rev. Father A. Verstraeten, S.J.

5. The Senate then proceeded to constitute the *Faculties of Arts, Science, Law, Medicine and Engineering* for the year 1944-45.

The Vice-Chancellor: Ballot papers containing the names of persons recommended by the Syndicate and the additional names proposed by the members of the Senate under Section 2, Chapter III of the Regulations are being circulated. You may either retain all the names or score out the name or names you do not want to be elected.

Mr. Umaprasanna Basu enquired if he would be permitted to ask any question with regard to the inclusion of non-medical men in the Faculty of Medicine.

The Vice-Chancellor: Here are the names proposed. There is nothing to be discussed at the present moment. If you like you may score out the names of persons you do not wish to be there.

Mr. Umaprasanna Basu: It is a question of principle.

The Vice-Chancellor: You may raise it at a subsequent meeting of the Senate.

A ballot was then taken for election of members recommended and proposed for each of the Faculties.

On scrutiny of the ballot papers the **Vice-Chancellor** said: 55 votes have been recorded in favour of each of the candidates mentioned under the different Faculties including the names proposed under the head 'Additional names.' Only three voting papers have been received where additional names have been crossed out.

I, therefore, declare the persons who have obtained the majority of votes, *viz.*, 55, as duly elected to the Faculties concerned.

The Vice-Chancellor then declared the Faculties to be constituted as follows for the year 1944-45:—

FACULTY OF ARTS

Apurvakumar Chanda, Esq., M.A. (Oxon.).
Sir Prophullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
W. C. Wordsworth, Esq., C.I.E., M.A., M.L.A.
Sir Z. R. Zahid Suhrawardy, Kt., M.A., B.L., Barrister-at-Law.
Prof. Praphullachandra Mitter, M.A., Ph.D.
Manmathanath Ray, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
Harendracoomar Mookerjee, Esq., M.A., Ph.D., M.L.A.
Pramathanath Banerjee, Esq., M.A., B.L., Barrister-at-Law, M.L.A.
Ramaprasad Mookerjee, Esq., M.A., B.L.
Rai Bahadur Prof. Khagendranath Mitra, M.A.
Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A., *Dean.*
Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.
Rai Pramodechandra Datta, Bahadur, C.I.E., B.L.
Sir S. Radhakrishnan, Kt., M.A., D.L., D.Litt.
Prof. Jnanendranath Mukherjee, D.Sc.
Satischandra Ghosh, Esq., M.A.
Rev. Allan Cameron, M.A., B.D.
Prof. Surendranath Dasgupta, C.I.E., M.A., Ph.D. (Cal.), Ph.D., (Cantab.), D.Litt. (Rome).

Khan Bahadur Maulvi Muhammad Manir Baksh, B.A
Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.
Khan Bahadur Maulvi Alfaz-ud-din Ahmad, M.A., M.L.A.
Muhammad Qudrat-i Khuda, Esq., D.Sc. Lond.), D.I.C.
Prof. Chunilndranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
Prof. Muhammad Zubair Siddiqi, M.A., B.L., Ph.D. (Cantab.).
Sir Badridas Goenka, Kt., Rai Bahadur, C.I.E., B.A
Sir A. Fazlur Rahman, Kt., M.A. (Oxon.), LL.D.
T. Ahmed, Esq., M.B., D.O.M.S., F.R.C.S., F.S.M.F. (Bengal).
Shahid Suhrawardy, Esq., B.A. (Oxon.).
Prof. Jitendraprasad Niyogi, M.A. Ph.D. (Lond.).
Rai Bahadur Jitendramohan Sen, B.Sc., M.Ed. (Leeds), T.D. (London), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

The Hon'ble Mr. Justice Rupendracoomar Mitter, M.Sc., M.L.
C. F. Ball, Esq., B.A. (Lond.).
Rev. Father A. Verstraeten, S.J.
Khan Bahadur Maulvi Ebrahim Khan, M.A., B.L.
Prof. Hemchandra Raychaudhuri, M.A., Ph.D.
Saty-charan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.
E. Zachariah, Esq., M.A. (Oxon.).
Jogeschandra Chakravorti, Esq., M.A.
Sailendranath Mitra, Esq., M.A.
Abdur Rahaman Siddiqi, Esq., M.L.A.
Prof. Meghnad Saha, D.Sc., F.R.S.
Miss Sushilabala Gupta, B.A., B.T., Dip. in Edn. (Leeds), M.Ed. (Leeds).

Henry Thomas, Esq., M.A., Ph.D.
Fazlur Rahman, Esq., M.A., B.L., M.L.A.
Khan Bahadur Mohammed Ali, M.L.A.
Hamidul Huq Chaudhuri, Esq., B.L., M.L.C.
Itrat Hossain Zuberi, Esq., M.A., Ph.D. (Edin.).
Mrs. S. C. Mookerjee.
Jogischandra Sinha, Esq., M.A., Ph.D.
S. N. Banerjee, Esq., Barrister-at-Law.
Rai Bahadur Bhadreswar Barua, B.L.
Rev. G. H. C. Angus, M.A., D.D.
Khan Bahadur Khalifa Mohammed Asadullah, B.A., F.L.A.
Debiprasad Khaitan, Esq., M.A., B.L., M.L.A.
The Hon'ble Mr. Justice Syed Nasim Ali, M.A., B.L.
Khan Sahib Maulvi Dewan Muhammad Abbab Chowdhury, B.A., M.L.A.

Khan Bahadur Badiur Rahman, B.Sc., B.T. (Cal.), M.Ed. (Leeds).
A. K. M. Zakariah, Esq.
Captain Mamood Hasan, Khan Bahadur, M.A., D.Phil. (Oxon.), Barrister-at-Law, M.R.S.L. (Lond.).

Narendranath Sarkar, Esq., M.A., F.S.A.A.
Radhabinod Pal, Esq., M.A., D.L.
James Buchanan, Esq., M.A.
Maulvi Muhammad Amjad Ali, B.A., LL.B. (Aligarh), M.L.A.
Krishnakanta Handiqui, Esq., M.A. (Oxon.).
Jatindrabihari Chowdhuri, Esq., M.A.
Miss. F. E. Gross, M.A. (Cantab.)

FACULTY OF SCIENCE

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Sir Prafullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
Bidhanchandra Roy, Esq., B.A., M.D., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. Bengal).

Prof. Praphullachandra Mitter, M.A., Ph.D.
Prof. Jnanendranath Mukherjee, C.B.E., D.Sc. (Lond.), F.R.A.S.B., F.N.I.
Satischandra Ghosh, Esq., M.A.
M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Lalitmohan Banerjee, Esq., M.S. (Cal.), F.R.C.S. (Eng.).
Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D. F.Inst.P.
Prof. Girindrasekhar Bose, D.Sc., M.B.
Rai Bahadur Jitendramohan Sen, B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Satyendranath Roy, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).
Rev. Father A. Verstraeten, S.J.
Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.
Prof. Meghnad Saha, D.Sc., F.R.S.
Khan Bahadur Badiur Rahman, B.Sc., B.T., M.Ed. (Leeds).
Kumudsankar Ray Esq., B.Sc. (Edin.), M.A., M.B., Ch.B. (Edin.), F.S.M.F. (Bengal)

Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc. (Lond.).
Snehamay Datta, Esq., M.Sc. (Cal.), D.Sc. (Lond.) D.I.C., F.N.I.
Subodh Mitra, Esq., M.B. (Cal.), M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G. (Eng.).

Phanindranath Brahmachari, Esq., M.Sc., M.D.

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Minutes of the Faculty of Science

FOR THE YEAR 1944

No. 3

THE 26TH FEBRUARY, 1944

(Special)

Present :

Professor Meghnad Saha, D.Sc., F.R.S., *Dean, in the Chair.*

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).

Prof. Jnanendranath Mukherjee, D.Sc. (Lond.).

Satischandra Ghosh, Esq., M.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Rev. Father A. Verstraeten, S.J.

Subodh Mitra, Esq., M.B. (Cal.), M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G. (Eng.).

Phanindranath Brahmachari, Esq., M.Sc., M.D.

The Faculty met to elect Added Members for the year 1944-45.

The undermentioned gentlemen were proposed for election :—

Name	*Proposed by*
1. Acharyya, Mr. Susilkumar, M.Sc.	Prof. Girindrasekhar Bose, D.Sc., M.B.

Statement of Qualifications as stated by the Proposer

Mr. Acharyya is at present the Special Officer of the University, and Lecturer in Physics, University College of Science ; sometime Secretary, Councils of Post-Graduate Teaching in Arts and Science.

2. Biswas, Mr. Saratlal, M.Sc.	Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc.

Statement of Qualifications as stated by the Proposer

Mr. Biswas is the Head of the Department of Geology.

3. Chuckerbutti, Dr. Brajendranath, D.Sc.	Satischandra Ghosh, Esq., M.A.

Statement of Qualifications as stated by the Proposer

Contributor of numerous original articles ; an experienced University Lecturer with high attainments ; has been an Added Member for a number of years.

4. Mahalanobis, Mr. Prasantachandra, M.A. (Cantab.), B.Sc.	Professor Meghnad Saha, D.Sc., F.R.S.

Statement of Qualifications as stated by the Proposer

Professor Mahalanobis has been a member for a number of years.

Name	*Proposed by*
5. Mitra, Mr. Ladlimohan, M.Sc.	M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Statement of Qualifications as stated by the Proposer

Head of the Department of Chemistry, Bangabasi College, Calcutta.

6. Mitra, Prof. Sisirkumar, M.B.E., D.Sc., F.N.I.	Professor Jnanendranath Mukherjee, D.Sc. (Lond.).

Statement of Qualifications as stated by the Proposer

He has served as an Added Member of the Faculty for several years and his researches are too well-known to require to be stated in detail.

7. Ray, Prof. Bidhubhushan, D.Sc.	Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Statement of Qualifications as stated by the Proposer

Dr. Ray is the Khaira Professor of Physics and the author of numerous publications on the subject of X-Ray in various journals.

8. Ray, Prof. Priyadaranjan, M.A., F.N.I.	Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

Statement of Qualifications as stated by the Proposer

Khaira Professor of Chemistry. Author of numerous original papers. Has been an Added Member for some years.

9. Sen, Prof. Nikhilranjan, M.A., Ph.D., D.Sc.	Professor Praphullachandra Mitter, M.A., Ph.D.

Statement of Qualifications as stated by the Proposer

Sir Rashbehary Ghose Professor of Applied Mathematics. Has been an Added Member of the Faculty of Science for many years.

A ballot was taken among the candidates proposed for the election, and on scrutiny of the ballot papers it was found that all the gentlemen proposed had obtained votes from majority of the members present at the meeting and voting. The Dean, thereupon, declared the gentlemen to be duly elected Added Members of the Faculty of Science for 1944-45.

(Confirmed.)

M. N. SAHA,
Dean.

J. CHAKRAVORTI,
Registrar.

Minutes of the Faculty of Science

FOR THE YEAR, 1944

No. 8

THE 25TH MARCH, 1944

(Special)

Present :

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal), *in the Chair.*

Prof. Praphullachandra Mitter, M.A., Ph.D.

Satischandra Ghosh, Esq., M.A.

Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.

Prof. Girindrasekhar Bose, D.Sc., M.B.

Rai Bahadur Jitendramohan Sen, B.Sc., M.Ed. (Leeds), T.D. (London), Dip. Ed. (Oxford), F.R.G.S., F.N.I.

Rev. Father A. Verstraeten, S.J.

Satyacharan Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S.

Prof. Meghnad Saha, D.Sc., F.R.S.

Khan Bahadur Badiur Rahman, B.Sc., B.T., M.Ed. (Leeds).

Snehamay Datta, Esq., M.Sc. (Cal.), D.Sc. (Lond.), D.I.C., F.N.I.

Subodh Mitra, Esq., M.B. (Cal.), M.D. (Berlin), F.R.C.S. (Edin.), F.R.C.O.G. (Eng.).

Phanindranath Brahmachari, Esq., M.Sc., M.D.

Sarathi Biswas, Esq., M.Sc.

Ladlimohan Mitra, Esq., M.Sc.

Prof. Priyadaranjan Ray, M.A., F.N.I.

In the absence of the Dean who came late Sir Upendranath Brahmachari was voted to the Chair.

The Faculty met to elect members of the Boards of Studies, for the year 1944-45, in (1) Chemistry, (2) Experimental and Mathematical Physics, (3) Zoology, (4) Geology and Mineralogy, (5) Botany, and (6) Physiology, and also to elect not more than *two* members for the Board of Studies in Psychology, not more than *six* members for the Board of Studies in Mathematics, not more than *six* members for the Board of Studies in Geography and not more than *three* members for the Board of Studies in Teaching.

The undermentioned persons were proposed for election to the Boards of Studies under which their names appear :—

Board of Studies in Chemistry

1. **Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).**
2. **Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.**

3. Prof. Praphullachandra Mitter, M.A., Ph.D.
4. Prof. Jnanendranath Mukherjee, C.B.E., D.Sc. (Lond.), F.R.A.S.B., F.N.I.
5. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
6. Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.F.
7. Rev. Father A. Verstraeten, S.J.
8. Prof. Meghnad Saha, D.Sc., F.R.S.
9. Khan Bahadur Badiur Rahman, B.Sc., B.T., M.Ed. (Leeds).
10. Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc. (Lond.).
11. Snehamay Datta, Esq., M.Sc. (Cal.), D.Sc. (Lond.), D.I.C., F.N.I.
12. Phanindranath Brahmachari, Esq., M.Sc., M.D.
13. Ladlimohan Mitra, Esq., M.Sc.
14. Prof. Priyadaranjan Ray, M.A., F.N.I.

The Dean thereupon declared the undermentioned gentlemen duly elected members of the Boards of Studies for the year 1944-45, under which their names appear :—

Board of Studies in Chemistry

1. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
2. Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.
3. Prof. Praphullachandra Mittter, M.A., Ph.D.
4. Prof. Jnanendranath Mukherjee, C.B.E., D.Sc. (Lond.), F.R.A.S.B., F.N.I.
5. Muhammad Qudrat-i-Khuda, Esq., D.Sc. (Lond.), D.I.C.
6. Prof. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P.
7. Prof. Meghnad Saha, D.Sc., F.R.S.
8. Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc. (Lond.).
9. Snehamay Datta, Esq., M.Sc. (Cal.), D.Sc. (Lond.), D.I.C., F.N.I.
10. Phanindranath Brahmachari, Esq., M.Sc., M.D.
11. Ladlimohan Mitra, Esq., M.Sc.
12. Prof. Priyadaranjan Ray, M.A., F.N.I.

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Minutes of the Senate

FOR THE YEAR 1944

No. 7

(Special)

THE 24TH JUNE, 1944

Present :

His Excellency the Rt. Hon'ble R. G. Casey, C.H., D.S.O., M.C., *Chancellor, in the Chair.*

Radhabinod Pal, Esq., M.A., D.L., *Vice-Chancellor.*

K. C. Basak, Esq., I.C.S., *Secretary to the Government of Bengal, Education Department.*

W. A. Jenkins, Esq., C.I.E., D.Sc., *Director of Public Instruction, Bengal.*

A. K. Chanda, Esq., M.A. (Oxon.), *Principal, Presidency College, Calcutta.*

Prof. Subodhchandra Mahalanobis, B.Sc., F.R.S.E.

Bidhanchandra Roy, B.A., M.D., D.Sc., M.R.C.P. (Lond.), F.R.C.S. (Eng.), F.S.M.F. (Bengal).

Manmathanath Ray, Esq., M.A., B.L., M.L.A.

The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.

Ramaprasad Mookerjee, Esq., M.A., B.L.

Rai Bahadur Prof. Khagendranath Mitra, M.A.

Pramathanath Banerjea, Esq., M.A., D.Sc., Barrister-at-Law, M.L.A.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., LL.D., Barrister-at-Law, M.L.A.

Khan Bahadur Tasadduq Ahmad, B.A., B.T., M.Ed.

Major Dabiruddin Ahmad, O.B.E., L.M.S., V.H.A.S., A.I.R.O., F.S.M.F. (Bengal).

Satischandra Ghosh, Esq., M.A.

M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).

Shams-ul-Ulama Khan Bahadur Maulvi Muhammad Musa, M.A.

Khan Bahadur Maulvi Alfar-ud-din Ahmad, M.A., M.L.A.

Muhammad Qudrat-i Khuda, Esq., D.Sc. (Lond.), D.I.C.

Prof. Jitendraprasad Niyogi, M.A., Ph.D. (Lond.).

Prof. Girindrasekhar Bose, D.Sc., M.B.

Rai Bahadur Jitendramohan Sen, B.Sc., M.Ed. (Leeds), T.D. (Lond.), Dip.Ed. (Oxford), F.R.G.S., F.N.I.

Ratanmohan Chatterjee, Esq., M.B.E., B.L.

Satyendranath Ray, Esq., M.B., F.R.C.S. (Edin.), D.T.M.&H. (Eng.).

The Hon'ble Mr. Justice Rupendrakoomar Mitter, M.Sc., M.L.

C. F. Ball, Esq., B.A. (Lond.).

Rev. Father A. Verstraeten, S.J.

Sasikanta Chakraborti, Esq. B.E., M.I.P. (Lond.), M.I.E. (Ind.).

S. Wajid Ali, Esq., B.A. (Cantab.), Barrister-at-Law.

Jogeschandra Chakravorti, Esq., M.A.

Sailendranath Mitra, Esq., M.A.

Professor Meghnad Saha, D.Sc., F.R.S.

Fazlur Rahman, Esq., M.A., B.L., M.L.A.

Khan Bahadur Mohammad Ali, M.L.A.

Hamidul Huq Chaudhury, Esq., B.L., M.L.C.

Itrat Hossain Zuberi, Esq., M.A., Ph.D. (Edin.).

Jogischandra Sinha, Esq., M.A., Ph.D.

Rai Bahadur Bhadreswar Barua, B.L.

Rev. G. H. C. Angus, M.A., D.D.

Khan Bahadur Khalifa Mohammad Asadullah, B.A., P.L.A.

The University of Calcutta & Acharya P.C Ray 1906-1944

Rai Sahib Panchanan Ganguli.
Khan Sahib Moulvi Dewan Muhammad Abbad Chowdhury, B.A., M.L.A.
Khan Bahadur Bediur Rahman, B.Sc., B.T., M.Ed. (Leeds).
Umaprasanna Basu, Esq., M.B., F.R.C.P.I., F.S.M.F. (Bengal).
A. K. M. Zakariah, Esq.
Narendranath Sarkar, Esq., M.A. F.S.A.A.
Amulyakrishna Das, Esq., B.Sc. (Cal.), B.Sc. (Tech.) (Manchester), A.M.I.E.E.
Prof. Bireschandra Guha, M.Sc., Ph.D., D.Sc.
Lt.-Col. H. E. Murray, C.I.E., M.D., M.Ch., F.R.C.O.G., I.M.S.
Maulvi Muhammad Amjad Ali, B.A., LL.B. (Aligarh), M.L.A.
Bijaychandra Mookerjee, Esq., M.B., D.P.H.
Jatindrakisor Choudhuri, Esq., M.A.
Miss F. E. Grose, M.A.
Phanindranath Brahmachari, Esq., M.Sc., M.D.
Ataul Hakim Esq., M A., Ph D.

The Senate met to express sorrow at the death of Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B.

His Excellency the Chancellor: Mr. Vice-Chancellor, Ladies and Gentlemen, the Senate of the University of Calcutta is met together today in remembrance of Sir Praphullachandra Ray—a man outstanding in heart, mind and spirit whose passing all must mourn. He was a leader of his generation and the benefactor of the generation that followed.

Analysing the guiding motives of his life we find exemplified the finest aims of human endeavour—the pursuit of knowledge and the application of that knowledge towards the betterment of his fellow men. Sir Praphullachandra Ray directed to the attainment of these aims the whole force of a mind finely equipped in scholarship, powers of concentration, and practical sense, and—I think above all—a deep, generous and ready sympathy with the needs of mankind.

True greatness springs from a combination or synthesis of the main qualities of human goodness—qualities that are but seldom endowed one at a time—and still rarer in unqualified combination. Learning without understanding, knowledge without application, sympathy without direction—these are the gifts of lesser men. But Sir Praphullachandra Ray's qualities were untrammelled, and so—we perceive it clearly—he achieved greatness and lived his life greatly.

It is right that we should mourn his death—and it is a right and proper thing that we should seek to perpetuate his memory in a manner and on an object dear to his heart.

I now call upon the Vice-Chancellor to move a resolution of condolence.

The Vice-Chancellor: Your Excellency, Ladies and Gentlemen,

I beg to move the following resolution which His Excellency the Chancellor has been pleased to call upon me to move in expression of our profound sorrow at the loss which we have sustained and of our deep appreciation of the services and sacrifices of Sir P. C. Ray for the cause of this University :—

" The Senate place on record their deep sense of sorrow at the death of Sir Praphullachandra Ray, Kt., C.I.E., D.Sc., Ph.D., F.C.S., F.R.A.S.B. He rendered great services to the University as its first Palit Professor of Chemistry, as Dean of the Faculty of Science, as a Fellow and as a Benefactor. A scientist of world-wide reputation, the creator of a School of Chemistry in India, an educationist of liberal ideas, a true patriot, a great philanthropist, a friend of the poor and a pioneer of industrial regeneration in this province, Sir Prapullachandra Ray was a dynamic personality and was deeply loved and revered by his countrymen. To generations of students he was an ideal teacher, and his saintly ways of life were an example to all. By his death India has lost one of its greatest sons, and the University has suffered an irreparable loss."

Ladies and Gentlemen,

To the eloquent and glowing tribute that has just been so feelingly paid to the memory of Sir P. C. Ray by His Excellency it is scarcely necessary to add anything on this occasion.

The death of Sir P. C. Ray has plunged not only Bengal but the whole of India into deep, unrelieved gloom. By his death the whole country has lost not only one of its brightest luminaries but also a powerful and beneficent influence on the development of education in general and of Science in particular and on their progress in this country. Many of us are overwhelmed with a sense of personal loss. But the whole country is in grief. Keener and acuter becomes our grief when we remember that just at the moment when his powerful guiding hand, his forceful personality, his broad humanity and, above all, his swift and almost electric sympathy were needed most, fate should snatch him away from us.

We are placed in an age when it has become indispensable that we must somehow succeed in transmuting political pluralism and political strife into political concord and political solidarity. But the forces working for disunity and

discord are just now exerting their strongest pressure. Yet the whole weight of the past is pushing us on into the future. It will be a miracle if we can utilise this weight without blunting the spearpoint of our advance and succeed in achieving the much desired concord and solidarity. In this struggle we need the guidance of a genius who can see not only the present moment but also the coming hours and who can take decisions not according to power but according to justice. Sir P. C. Ray had the undoubted qualities for serving as the man of the hour. He had also an insatiable zest for exercising his talents for the cause of his country, and always passionately sought to liberate the repressed forces of education and to release the productive forces of industry.

I should recall here those words of his which reflected his heart as nothing else did: "When I have served my time I shall still want to live again and again in the lives of those who will carry on the struggle from generation to generation until the four-fold curse of tyranny, injustice, poverty and ignorance is lifted from the brow of my beloved long-suffering motherland." Herein one finds the mission of Acharyya Ray's life and the secret of the inspiration for his multifarious activities.

I shall be failing in my duty if I do not point out at this stage that the foundation of that strength of character, which always kept him erect before any gust of popular passion, however strong, was laid in a home where a father of catholic views generated love of rational thinking and healthy patriotism in his children while still young.

Sir P. C. Ray's active association with this University extended over close upon four decades, and I need hardly recount in detail the manifold capacities and ways in which he rendered services to the University with his intellect and munificence.

Sir Praphullachandra is no more in the land of the living. But he will ever live in our hearts and guide us to the fulfilment of the noble mission on which the Acharyya Deb fixed his gaze all his life.

Ladies and Gentlemen, with those few words I commend the resolution moved to your acceptance.

Dr. W. A. Jenkins in seconding the resolution said: It is inevitable that the passing of the great leader should bring sorrow and regret to all those who intimately knew him. But I do not think that sorrow and grief should be our only reactions. In chemical research he succeeded in doing work which won recognition for him throughout the

whole world. Along with Sir J. C. Bose and other eminent scientists he has proved beyond a shadow of doubt that Indians are capable of reaching the highest possible levels of attainment in scientific work. He lived a long and very fruitful life. Like all great men he did not succeed fully in attaining the very high ideals which he set before him but he achieved great success and was looking still further ahead to goals the attainment of which is left to those who follow him. It is natural that his passing away should bring emotional feelings but I feel that our dominant reaction to his death, one which he himself would have wished to see, should be the determination that the work which he so ably started should be carried on. We are all aware of his achievements in scientific research, in industrial enterprise, in inducing youngmen to take up social service, but to me it seems, the greatest achievement of his life time was the founding of a School of Chemistry which have inspired many youngmen to follow in his scientific footsteps and in the pursuit of which many of them have won recognition throughout the whole world. He had many outstanding qualities, sincerity of purpose, simplicity and austerity in his personal life and in service, the unselfish attitude that he adopted towards all questions, the courage and determination with which he fought against considerable obstacles, achieved the end which he had in view. These were his characteristics—characteristics which evince an intellectual capacity of no mean order for a great man of the type we know. We can pay no better tribute than to emulate these qualities. His memory as a great man will live on in the lives of this and coming generations and inspire activities directed towards ideals he himself strove to attain. His body is past but his soul lives and today we pay homage not to the body but to the living soul. India has lost a great scientist and a much loved man. He has left an example which I hope will generate power and will be manifested in the lives of this and coming generations.

On my own behalf and on behalf of the Indian and European colleagues in the Indian Educational Service I join in paying this tribute to this great man.

The resolution was carried unanimously in solemn silence, all the members present standing.

Dr. Syamaprasad Mookerjee then moved the following resolutions :—

(i) In order to perpetuate the memory of the late Sir Prafullachandra Ray, and to commemorate his connec-

tion with the study of Chemistry in this University steps be taken to raise a sum of about Rs. 5,00,000 for the establishment of a Chair in the University on some Applied branch of Chemistry to be called the Sir Praphullachandra Ray Professorship in Chemistry.

(ii) The Professorship be in the grade Rs. 700-50/2-1,000.

(iii) A Research Fellowship of the value of Rs. 200 per month be also created under this endowment, the Fellow to work under the guidance of the Professor.

(iv) The Syndicate be authorised to take necessary steps in the matter and to frame detailed rules governing the above Professorship and the Fellowship.

He said: Tributes have just now been paid to the memory of one of the most illustrious sons of India. He was the most beloved Professor in this University. Indeed Sir P. C. Ray does not need any memorial. He lived a life dedicated to the cause of truth and of service. It has been said that he was a great scientist but we should not forget that at the time when Sir P. C. Ray began his career as a Professor of Chemistry there were not many in the domain of science and industry in this country who devoted their whole time and energy to the cause of advancement of knowledge. There were just a few isolated examples of illustrious men who proved to the world that given the opportunity, Indians could rise to the highest level in the field of original research and investigation. Great as Sir P C. Ray was as a Professor greater indeed he was as a maker of a School of Chemistry. Indeed he gave everything that he had, so far as intellectual attainments were concerned, to the benefit of his pupils and they were numerous, taken from every part of India. He succeeded in sending out to different parts of the country a galaxy of brilliant chemists who today hold positions of trust and responsibility in various spheres of public and industrial life of India. It is not merely as a Chemist, not merely even as a maker of a School of Chemistry that we mourn his loss. Those who knew him intimately know that if he hated anything in his life it was the career of a narrow specialist. He was a man of the people and that was the reason why we find that he did not live the life of a scholar in his laboratory, although he loved his laboratory more than anything else. Whenever the call came he came out to serve his people to the best of his ability. When there was famine, when there was flood, it was Acharyya Praphullachandra Ray who

came out with the best humanitarian object and called to his side the service of all sections of the people and carried on the gigantic task of relieving the distressed and oppressed; when the call came for relieving the fallen women and distressed girls it was Acharyya Praphullachandra Ray who came out and gave his service to the founding of institutions which attained the character of national homes; when the call came for giving effect to the principles of Swadeshi and Charka from Mahatma Gandhi, although Acharyya Praphullachandra Ray did not actively join politics he developed the cause of Khaddar which no other man did; when the call came for the attainment of economic freedom of the country it was Acharyya Praphullachandra Ray who helped to industrialise the country's resources to an extent which perhaps no other chemist or man of Science has been able to do. He sometimes attacked some of the activities of the University, like the department of Law and, he did it not because he did not remember the great services which the legal profession has rendered to this University—the University College of Science owes its existence to the munificent donations of two illustrious lawyers, Sir Taraknath Palit and Sir Rashbehary Ghose who gave about 50 lacs of rupees for the founding of this national institute,—when he attacked the legal profession he made it clear that he wanted the children of his country to become economically free. He did not want overcrowding of any learned profession. He wanted that Bengal should take greater part in the development of arts and industries of the country. We know the result which he achieved in his life time. He was not a scientist alone. He was a lover of literature. I saw volumes of Shakespeare and other great English authors in his library. He was indeed a complete man, the like of whom we are not likely to see for generations to come. The loss which the University has suffered is one which will not be repaired for many years to come. I entirely agree with Dr. Jenkins that ours should not be an idle expression of mere sorrow. He has handed down to us a heritage which would be treasured as a national treasure not only by the present generation but also by generations to come. He has left behind him pupils who will carry on the torch of learning, the torch of industrial expansion, the torch of economic reconstruction and the torch of political freedom. In him the country has lost a leader of men, a prince among men, the like of whom we will not see again for generations to come. His was a great ideal. He

started life as a Government servant. He was a Professor in the Presidency College for many years. While he was in Government service he showed remarkable courage in appearing before a Royal Commission. He criticised the official policy with regard to Indian Officers serving under Government. That was remarkable courage shown by Acharyya Praphullachandra Ray nearly quarter of a century ago when public opinion was not so spirited and strong as it is today. It has been a matter of great regret and disappointment to his countrymen that he was never elected as a Fellow of the Royal Society but certain distinguished British Fellows of the Royal Society who were his intimate friends did not hesitate to declare later on that it was racial and political consideration which stood in the way of recognition of the merit of the great Indian Scientist at the hands of that Society. If the Society had honoured Sir Praphullachandra Ray it would have honoured itself. We shall carry forward the work which he started and that I believe is the greatest memorial that this University can hope to build. I have not the least doubt that the appeal which is being issued will find support from all sections of the community throughout the length and breadth of India and we shall succeed in establishing a special chair after Sir Praphullachandra Ray devoted to some branch of Applied Chemistry which was near and dear to his heart.

Dr. Itrat Hossain Zuberi: Dr. Syamaprasad Mookerjee has dealt with the many-sided activities of Sir Praphullachandra Ray. He was an eminent scientist, a deep thinker, and industrial researcher, a true lover of literature. I think nothing would have given him greater pleasure than the continuance in this University of the work with which he was associated for nearly four decades and that this can only be done by the founding of the Professorship which Dr. Mookerjee has so ably advocated. I think the appeal which this University is going to issue will be readily answered.

The resolution was then put and carried unanimously.

The Hon'ble Mr. Justice Charuchandra Biswas: Sir, we are indeed very glad that you have come to preside over this meeting. When the University is mourning the loss of a great man—a member of this University, it is in the fitness of things that the Head of the Institution should occupy the Chair.

(Confirmed.)

R. B. PAL,
Vice-Chancellor.

J. CHAKRAVORTI,
Registrar.

Epilogue

Summarised view of the Meetings[1]

In the meeting of the Syndicate on 14th August 1906, a letter from the deputy Secretary to the Government of India in the Home Dept., His Excellency the Chancellor is pleased to nominate as per sec. 6, Clause(C) and section 10 of the Indian University Act, 1904 (VIII of 1904), Dr. Praphulla Chandra Ray, D.Sc., as one of the Ordinary Fellows of the University.

In the same meeting it was resolved that the Syndicate recommended to the Senate for constitution of the Faculties of Arts, Science, Law, Medicine and Engineering. Dr. P.C.Ray's name was in the Faculty of Science. (pp-97-100)

In the meeting of the Senate for the year 1906 on 26th August 1906, Sir Asutosh Mookerjee, Vice Chancellor, declared Dr. P.C.Ray elected in the Faculty of Science along with others. (P-146)

In the Faculty of Science meeting on 3rd September, 1906, Dr. P.C.Ray was present. (P-162)

In the Faculty of Science meeting on 6.11.1906, the Board of Studies was formed and in the Board of Studies in Chemistry, Board of Studies in Mathematical and Experimental Physics, Board of Studies in Zoology, Board of Studies in Geology and Mineralogy and the Board of Studies in Botany. Dr. P.C.Ray was elected as one of the members in each of the Board of Studies mentioned. (pp-229-234)

In the subsequent meetings of the Faculty of Science Dr. P.C.Ray was present on 10.11.1906, 15.12.1906 upto14.9.1907. (pp-242,290...811)

In the year 1907, Govt. of India "have made special allotments to provinces in aid of primary education, and also in aid of University and of technical and European education" while the cost of Secondary Education may be met from provincial revenues. (P-45)

A Committee of 7 members was ultimately formed but the names of 9 members were originally proposed, though all of them withdrew their names – P.C.Ray was one among them. (pp-45-46)

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[1] How to use:
The dates of the meetings (Senate, Syndicate & Faculty Council) are mentioned. This is arranged chronologically, as far as practicable. The page number as mentioned at the top of each page is that of the original document. The page number at the bottom of each page is the page number of this book.
The date of each meeting as mentioned in the original document, is shown at the top of the page.

In the meeting of the Syndicate on 14.9.1907 the report from Dr. P.C.Ray on an application for the affiliation of the Ripon College up to the intermediate standard in Science was approved. (pp-811-816)

The meeting of the Syndicate on 4.1.1908 constituted the Faculties for the year 1908-09 and the Faculties of Arts, Faculty of Science etc. were formed. Dr P.C.Ray's name was recommended for both Arts and Science Faculties. (pp-22-24)

In the Meeting of the Syndicate dated 18.01.1908 a letter addressed to the Vice-Chancellor by P.C.Ray along with others from different Boards of Studies recommended the Successful candidates' names who were placed in the first class as eligible for the Government Scholarships etc... and for appointment in the provincial Civil Service of the Government. (pp-87-89)

On 25.1.1908 Senate meeting Dr. P.C.Ray was present. (pp-105-106)

In the same meeting of the four representatives on the Syndicate for the year 1908 – 09, Dr. P.C.Ray proposed one name. The same meeting proposed Dr. P.C.Ray as one of the members in the Faculty of Arts and Faculty of Science. (pp-105-116)

On the 8th February, 1908 in the meeting of the Syndicate the results of the MA Examination in 1907 as reported by Dr. P.C.Ray along with some Hon'ble members were reported. (P-143)

In the meeting of the Senate on 22nd Feb, 1908 P.C.Ray was present and in that meeting the Registrar placed the detailed qualifications of the Hon'ble Justice Mr. Asutosh Mookerjee. It was decided that this would be "referred the members of the Senate to the statement before them." (pp-205-207)

The Senate meeting on 14.3.1908 was Jubilee convocation meeting where Dr. P.C.Ray was present and the greetings of Punjab and Allahabad Universities were read; Honorary Doctor of Philosophy was given to Dr. P.C.Ray in that meeting. (pp-256-264)

The Honorary Doctor of Philosophy degree was presented by the Vice Chancellor to P.C.Ray in the convocation meeting on March 14, 1908. (P-264)

The Senate meeting on 21st March, 1908 moved a vote of thanks to the Maharaja Sir Rameswar Singh Bahadur, of Darbhanga for his noble donation of Rs. 2.5 Lac for the building of a library to the University of Calcutta.

Sir P.C.Ray was present in that Senate meeting. Sir Asutosh Mookerjee was .the chairman of that meeting as Vice-Chancellor. (pp-281-282)

The Joint meeting of Faculty of Arts and Science was held on 11th April, 1908 and P.C.Ray was Present and many relevant Important decisions were taken in favour of the student in the meeting under the chairmanship of the Vice-Chancellor. (pp-344-349)

The meeting of the Senate on 11th April, 1908 recommended the creation by the Syndicate of the Guruprasanna Ghosh scholarship utilizing the income of his endowment. 3 scholarships, if tenable, for research in Japan, will be of annual value of Rs. 1000; and for research in Europe or America, will be of annual value of Rs. 2000. The details of terms and conditions were also finalised in that meeting in presence of Dr. P.C.Ray.

In the said meeting a Resolution regarding Jubilee Research Prizes was also adopted. The meeting also adopted the scheme where duties of the professor of Economics shall be among others to devote himself to the investigation of the science of Economics and its application to Indian Problems.' (pp-350-361)

In the meeting of the Syndicate dated 14.12.1908, the scenario in education system and particularly in collegiate education – the suggestions for reform and development were reflected in the proceedings.

P.C.Ray was declared elected as representative of the Senate on the Court of visitor to the Indian Institute of Science on July 10, 1909 meeting of the Senate.

In the meeting of the Syndicate on 14th December, 1908 a letter of Dr. P.C.Ray was read. In that letter Dr. P.C.Ray pointed out that most of the questions in Chemistry set at the Supplementary F.A. Examination being held at that time was so stiff that he was afraid of a large scale failure 'Papers may be leniently examined' was suggested. The Syndicate resolved to refer the letter to the Board of moderators for consideration. (pp-2070-2072)

The Faculty of Science meeting on 19th December, 1908 was attended by Dr. P.C.Ray. (pp-2081-82)

The meeting of the Syndicate on 30th December, 1908 recommended the names to the Senate for the faculties to be constituted for the year 1909 and P.C.Ray's name was there in the Faculties of Arts, and in the Faculty of Science. (pp-2195-2197)

The Syndicate in its meeting dated 14.1.1909 read a report of the Board of Examination for the MA Examination, 1908 and it resolved to accept that report. The Report was placed by P.C.Ray and Others. (pp-14,21-24)

The Senate meeting dated 30.1.1909 declared the names of fellows in the Faculty of Arts and in the Faculty of Science and P.C.Ray was there in both the faculties. (pp-94-100)

The Senate meeting on 13.3.1909 was the convocation meeting and P.C.Ray was present among others. (pp-293-295)

The meeting of the Faculty of Science on 3rd April, 1909 appointed several Boards of Studies and P.C.Ray was elected in the following Boards.

(1)Chemistry
(2) Mathematical and Experiment Physics
(3) Zoology
(4)Geology and Mineralogy (pp-393-395)

The Senate on 10th July, 1909 elected Dr. P.C.Ray as the representative of the Senate to the court of Visitors in the Indian Institute of Science as requested by the Government of India (Letter No. 469, dated Simla, the 31st May, 1909). (pp-852-854)

The Senate meeting dated 28.08.1909 was attended by Dr. P.C.Ray among others. (P-1081)

In the Joint meeting of the Faculties of Arts and Science on 20.11.1909, it was resolved that Astronomy in both theoretical and practical papers should be taught as a separate science subject like Physics, Chemistry etc. and should be taught from the I.Sc. to the B.Sc. Standard and Mathematics and Physics should be made compulsory for the I.Sc. and B.Sc. examinees. Professor Panchanan Neogi moved this proposal but no one supported it. P.C.Ray was present in that meeting under the chairmanship of the vice-Chancellor. (pp-1372-1373)

In the Senate meeting on 4th December, 1909, the motion to allow an examinee to appear at the MA Examination who was a student of Presidency college and Studying under the guidance of Dr. P.C.Ray and other professors be allowed to appear, carried. (pp-1447,2667)

The Syndicate meeting dated 31.12.1909 recommended to the Senate the names of the several Faculties for the year 1910. In the said meeting recommendation of Dr. P.C.Ray for Premchand Raychand studentship for further 3 years be extended to Panchanan Neogi and was granted.

(pp-1492-93)

In the Faculty of Science meeting on 26.2.1910 as per proposal of Dr. P.C.Ray Panchanan Neogi was elected as an added member. (pp-230-231)

The Syndicate in its meeting dated 12.2.1910 accepted the resignation of Examinership of Dr. P.C.Ray in Organic and Inorganic Chemistry at the ensuing first MB and Preliminary Scientific MB Examination. (pp-181-182)

The Senate in its meeting on 9.4.1910 took a decision to broaden the facilities of admission for more students from nearby colleges or schools by amending the relevant University Regulation and the resolution taken be sent to the Government of India for necessary incorporation. Dr P.C.Ray was present in that meeting among others. (pp-363-364)

The Faculty of Science meeting decided in its meeting dated 9.4.1910 to elect Dr. P.C.Ray in the Board of Studies in Chemistry. (P-384)

The Syndicate in its meeting in the year 1910 recommended an application of a casual student of the chemical Laboratory of the Presidency College for

appearing MA Examination in Chemistry in July, 1910 as a non collegiate student enclosing an original certificate of Dr. P.C.Ray supporting the prayer. (P-427)

In its meeting, the Senate, dated 6th August, 1910 decided to appoint. Dr. A.M.Suhrawardy, MA, PhD., D.Lit., Bar at Law, "Tagore Law Professor" for 1911 and that the subject of his lecture be "The History of Moslem Legal Institutions with special reference to the Law of Waqf" Dr. P.C.Ray was present in that meeting. (pp-928-929)

In a meeting of the Syndicate dated 3.9.1910 it was resolved that the Report recommending Guruprasanna Ghosh Scholarship for 1910 be awarded to Jatindra Chandra Chatterjee for Studying higher Physics in the University of London. The Report was sent by P.C.Ray and 3 others members of the said committee. (pp-1131,1156)

The Syndicate in its meeting on 1.10.1910 decide to appoint a Board of Paper Setters for the ensuing MA and M.Sc. examinations (1911) and P.C.Ray was one of them in Chemistry. (pp-1383,1433,1435)

The Syndicate in its meeting on 17.12.1910 decided to appoint examiners in different examinations from Matriculation to B.A./B.Sc. and LT and BT. For the B.Sc.(Honours)in Chemistry examination Dr. P.C.Ray was there along with one other examiners. (pp-1699,1700,1713,1715)

The Syndicate in its meeting dated 31.12.1910 considered a letter from the Secretary of Congress of the University of the Empire, requesting suggestions, if any, of the content of the letter and resolved to form a committee comprising 4 members; Dr. P.C.Ray was one of them. (pp-1737,1761)

The Syndicate in its meeting on 31.12.1910 considering the invitation letter of the vice-Chancellor of London University provisionally appointed 4 gentlemen provisionally appointed to represent the Calcutta University at the Congress of the University of the Empire to be held in London in 1912. The names of the persons are Mr. Amir Ali, Mr. G.W.Kücher, Babu Debaprasad Sarbadhikari, P.C.Ray. (pp-1814,1921)

The Syndicate in its meeting on 20.5.1911 considering a letter from the Registrar, Punjab University requesting suggestions in connection with the Congress of the University of the Empire, ordered that the letter be forwarded to the 3 members delegated for this purpose. P.C.Ray was one of them. (P-745)

In its meeting of the Syndicate dated 27.5.1911 the Report from the Board of Examinees for the B.A. Examination, 1911 was placed, wherein stating that out of 1038 examinees only 663 passed and 108 obtained Honours etc. Out of eight recommendations of the Board of Examiners lowering the percentages of failures, 5 marks be added to all candidates being the No.1. The Board

comprise 38 members headed by the Vice-Chancellor; P.C.Ray was one of them. That recommendation and the Report was fully accepted. (pp-841-843)

In the meeting of the Syndicate on 1st December, 1911 a Report on the Presidency College for 1910-11 was placed. Resolved to appoint 'eleven member committee to consider the Presidency College development scheme' Dr. P.C.Ray was one of them. (pp-2191-2195)

The Senate meeting on 23rd December, 1911 constituted the Faculties for the year 1912 as per recommendation of the syndicate. Both in the Faculty of Arts, and Faculty of Science, P.C.Ray was one of the members.

(pp-2230,2310,2311)

The Syndicate in a meeting on 16th September, 1911, finalised the appointment of Paper setters for the MA Examination in 1912 and P.C.Ray in Chemistry was one of them. (pp-1731,1740)

In the meeting of the Syndicate on 23rd September,1911 the Reports from the Board of Examination for MA Examination and M.Sc. examination – 1911 held in June 1911 were adopted. In both the Boards P.C.Ray was one of the members and the reports were submitted by P.C.Ray and others headed by the Vice-Chancellor. (pp-1787,1866,1867)

The Syndicate in a meeting dated 20.1.1912 adopted a report of Dr. P.C.Ray recommending a laborious thesis of a Premchand Raychand scholarship holder student and granted to him an increase of scholarship of Rs.800.

(P-77,92)

The Senate on 27th Jan.1912 meeting formed the Faculties for the year 1912 by Election and P.C.Ray among others was elected in the Faculty of Arts, in the Faculty of Science. (pp-143-149)

The Syndicate in its meeting on 10th Feb., 1912 resolved to recommend to the Senate for permission to appear at the ensuing MA/M.Sc. examination in Chemistry to those candidates who were unsuccessful for the last year examination, as per recommendation of Dr. P.C.Ray. (pp-246,290)

The meeting of the Syndicate on 4.1.1913 decided to appoint examiner for the Griffith memorial Prize for the year 1912 and P.C.Ray was appointed for the same on specified subject concerned. (pp-27-28)

In the meeting of the Annual meeting of the Senate on 25th Jan.1913 the names of the fellows in the Faculty of Arts and in the Faculty of Science were announced, P.C.Ray was a member of both the Faculties. (pp-157-160)

The Syndicate in its meeting dated 01.02.1913 recommended to the Senate to permit a student of Dacca University, who was unsuccessful after completing 2 years of study, to sit for the ensuing M.Sc. examination as a non-collegiate student in this University as endorsed by a letter of Dr. P.C.Ray of Presidency College. (pp-218,249)

The Syndicate in its meeting on 15.2.1913 ordered to inform Dr. P.C.Ray that as suggested, in the Utilisation of the sum of Rs.1 Lac earmarked for the library grants the claims of science would not be forgotten. (P-389)

The Syndicate in its meeting on 12.4.1913 considered an application endorsed by Dr. P.C.Ray for permission to offer a thesis In lieu of examination as appealed by the student,be granted. (pp-801,812,829)

In the minutes of the Syndicate dated 31st May for the year 1913 report on the Presidency College Calcutta for 1912-13, as recorded, stated the smallness of Chemistry Dept. and the need for the construction of spacious Laboratories and class room of Chemistry was emphasised. In that report P.C.Ray's notable research papers that were published in the Journal of Chemical Society for 1911 and 1912 were warmly acclaimed and the details of those papers were reported. Considerable portion of the papers had been accomplished and published from this Dept. of Chemistry. The need for reconstruction was also justified. (pp-1198,1199,1200)

The Syndicate meeting on 16.11.1913 requested P.C.Ray to examine and report on thesis submitted by a scholar for Premchand Raychand scholarship. (P-2426)

The Syndicate in a meeting on 6.12.1913 decided to appoint examiners in both Pass and Honours in Chemistry and P.C.Ray was appointed Chairman of the Board. (pp-3209,3233)

The Syndicate in its meeting on 26.12.1913 decided to appoint a committee consisting of 5 members of the Senate including the names of the Vice-Chancellor as Chairman and P.C.Ray as member to take steps for construction of a suitable building for Chemical and Physical laboratories In connection with the University College of Science of which construction had already been taken up. The committee mentioned would be consulting the reports after P.C. Mitra, who was entrusted by the University, visited few Chemical laboratories In Poona, Roorkee, Lucknow, Allahabad, Nagpur, Bombay, Bangalore and Madras.

In the above meeting Government of India's non recurring grant of Rs.800000/- to the Govt. of Bengal for the benefit of the Calcutta University to enable it to acquire the "Madhab Babu's Bazer" a fish market at the South of Senate House. Has reported Sir Rashbehary Ghose's offering of a sum of Rs. Ten Lac was also mentioned in the proceeding with some conditions attached therein. The Governing Body of the University College of Science foundation for the endowment of Sir Taraknath Palit Vice-Chancellor as Chairman and others from Senate donors, and P.C.Ray was there as Founder's nominee. It was also reported that In all, 46 meetings of the Syndicate and 17 meetings of the Senate were held during the year. (pp-2992-3182)

In the meeting of the Syndicate dated 6th December, 1913, Dr. P.C.Ray was nominated as the Chairman of the Board in Chemistry Practical both in Pass and Honours. (P-3209)

In the Syndicate meeting of 26th December, 1913 - it was revealed that intensive academic discussions took place during the one year period and there were 46 Meetings of the Syndicate and 17 meetings of the Senate took place during this whole year. In the Syndicate meeting dated 26.12.1913 Dr. Nilratan Sircar drew the attention of the DPI to the detailed report of the chemical laboratories in India. In the light of that report the need for modern Chemical Laboratory was considered and a committee for that purpose was formed. Dr. P.C.Ray's name was approved as one of the members. The changes in the powers of the University regarding the students of Matriculation examination was approved and Govt.'s desire to vest more power to the local Govt. was also approved. Govt. of India's Grant of eight Lac for the Calcutta University's expansion of Building was earmarked and transferred it to Bengal Govt. for its detailed reports of expenses. The Governing Body of the University College of Science, founded on the endowment of Sir T.N. Palit, approved the name of P.C.Ray as the Founder's nominee in that Body.

(pp-3209,2992,3167-68,3172-81)

The Syndicate meeting on 09th May 1914 Inspection reports of many colleges were approved and Dr. P.C.Ray was one of the members of the team. In order to frame the rules of award of remuneration of Practical Examination a Committee was formed and Dr. P.C.Ray's name was approved as one of the members.

In the meeting of the Syndicate dated 15.5.1915 the draft letter of the Registrar to the Secretary to the Govt. of India was placed and approved an P.C.Ray was present.

Some of the salient features of this draft:

(a) General policy of the University College of Science with regard to providing facilities for research in various science Depts. including three Depts. of Chemistry was stated. The school of young chemists, formed by the efforts of Dr. P.C.Ray and the research works of those chemists in the Indian Mineral, Agriculture and biological Chemistry, were elaborately presented.

(b) Necessity of increasing seats in the Post Graduate Science subjects especially Chemistry, Physics etc. was emphasized.

(c) For the advancement of P.G. Science courses Sir Taraknath Palit foundation of Trust and two Professorships, one in Chemistry and the other in Physics, and the stipulations of the Trust Deed that Rs. 100000/- (Rupees One Lac) only should be set apart for the research of the advanced students of science to carry on their research outside India were be adhered to.

A donation of Rs. 10,00,000/-(Rupees Ten Lac) only from Sir Rashbehary Ghosh founding four professorships in each of the subjects-Applied Mathematics, Physics, Chemistry and Botany was reported. The balance, if any, after fulfilment was to be applied to the equipment and maintenances of the Laboratories and Museums.

The terms of the Trust Deeds were clarified by the printed deed copy dated 08.08.1913. The senate (dated 22.6.1912) accepted the Trust Deeds of Sir Taraknath Palit on 17.06.1912 The copy of the minutes of the Senate dated 22.06.1912 was also enclosed wherein Palit professorships to Dr. P.C.Ray and C.V. Raman was given and the dutles of the Professorship was also stated.

(d) Appointment of Rashbehary Ghosh Professorship was given to Dr. Ganesh Prasad, Dr. Praphulla Chandra Mitra and Mr. Debendra Mohan Bose and Mr. S.P. Agarkar in Botany (Senate meeting 21.2.1914). The scale of pay was also stated as well as duties and other terms and conditions. Approval of the names of Palit research Scholarship of the students was also reported.

The composition of the Governing Body of the T.N.Palit Trust which incorporated Dr. P.C.Ray's name in that Governing Body was also mentioned.

(e) Yearly allotment of Rs. 12000/- sanctioned by the Govt. of India as maintenance Grant was also elaborately mentioned. Immediate necessity of acquiring the vacant land for the University's expansion was also mentioned.

The immediate necessity of arrivals of funds from the Govt. of Bengal was urgently needed. The above draft was approved. (pp-1497-1505)

The 16th November, 1914 Syndicate meeting decided that as per University Act of 1904 (VIII of 1904), the Govt. of India sanctioned the proposal to change the Regulation of the University in order to include 'Khasi' in the list of vernaculars for the IA and ISC examinations. (P-2126)

The meeting of the Syndicate on 5th December, 1914 resolved to endorse the proceedings of the Governing Body of Sir Taraknath Palit Endowment, dated 3rd December, 1914 whereby the Pension and leave allowance of Dr. P.C.Ray amounting to Rs.212.80 per mensem be paid by the University since his joining as Taraknath Palit Professor of Chemistry as requested by the DPI, Government of Bengal be given.

In that meeting scholarship of Rs100 each was awarded to Rasiklal Dutta, Nilratan Dhar for 1year term and Rs.75. per mensem was awarded to Rajendralal De from 1.1.1915 and they were to carry on research under Dr P.C.Ray on Sir Taraknath Palit Endowment. (pp-2711,252-53)

The Syndicate dated 22nd Dec 1914 noted that P.C.Ray had been re-elected by the Senate as the Representative of the University on the Court of Visitor of the Indian Institute of Science at Bangalore. The Syndicate noted the election of Dr.P.C.Ray as member to the Faculty of Science and P.C.Ray as Chairman of the Board in Pass and in Honours in practical in B.A. and B.Sc. Examination, 1914. That Dr. P.C.Ray also became an examiner in MA/M.Sc. examination 1914 in Chemistry was also noted. (pp-3134,3151,3156,3176,3178,3182)

The Vice-Chancellor in his convocation address elaborately narrated the services of P.C.Ray and JC Bose, honoured names in the world of Science and P.C.Ray was invited by the Punjab University for 'Exchange lecture'.

(pp-648-650,697)

The Syndicate on 15th May 1915 noted and approved the resolution of Governing Body of the Sir TN Palit Trust where P.C.Ray was one of the members as Founder's nominee. In the said meeting an important and elaborate letter of the Registrar of the University addressed to the secretary to the Government of India was approved and some of the salient features in that letter were mentioned (It may be pointed out that this valuable letter is the proof of Govt. of India's Commitment for liberal grants to the University of Calcutta that Challenged afterwards).

1. General Policy of the University college of science in regard to provide facilities of research in the science Depts. including the three existing Chemistry Departments (Physical, Organic, Inorganic). These researches would satisfy the purely theoretical interest but a large field for important and practically useful work lay upon to workers in the provinces of specifically Indian mineral, agricultures, and biological Chemistry.
2. In order to cope with the large number of students for the Post Graduate Classes- the seats in the PG Science Subjects and particularly in the Physics and Chemistry Depts. were immediately increased.
3. A short history of T.N.Pallt Trust and two Professorship each in Physics and Chemistry was enacted and in order to fulfil the terms and conditions of the Trust deeds, few scholarships were given to scholars for advanced studies in these fields, Another problem arose relating to Rs. One Lac set apart for the students who would be willing to go abroad to carry on their researches.
4. Rs. 10 Lac donation was received by the University on 8th August, 1913 for foundlng 4 Professorship each one in Applied Mathematics, Physics, Chemistry and Botany. The purpose was to carry on research work in those fields after completing the Master's degree. The balance might be utilised for the equipment and maintenance of the laboratories and Museums. (The Trust deeds of 8.8.13 and 22.06.12). In those Trust deeds duties of Professorship were also specified. Dr. P.C.Ray and C.V Raman were given the Palit Professorship in Chemistry and Physics.
5. Appointment to the Rashbehary Ghosh professorship was given to Dr. Ganesh Prasad, Dr. Prafullachandra Mitra, Mr. Debendra Mohan Bose and Mr. S.P.Agarkar (Ref. Senate meeting dated 21.2.1914). The Research scholarship holders' names were also stated. The Composition of the Governing Body of the Trust was also announced and P.C.Ray's name was there.

6. The announcement was made by the Chancellor in the convocation on 6th March regarding a donation of Rs. 12000/- a year as imperial grant. Apparatus purchased already by the University and the need for new building was urgently needed to accommodate the Dept. and special apparatus was needed for the purpose of research to be completed to enable C.V.Raman to carry on research. Income – expenditure accounts were also specified including the expenses of the Biochemical researches done by Dr. Upendranath Brahmachari and others.
7. Immediate necessity of acquiring the vacant land for construction of science Building as well as hostel and professors quarters in the vacant land was emphasized.

In conclusion, it was stated in that letter that "in order to utilize the benefactions of Sir T.N.Palit and Sir Rashbehary Ghosh it is important that sufficient assistance should be available as early as possible." The letter after approval was forwarded to the Government of India through the Rector. (pp-1497-1505)

The Syndicate in a meeting dated 27th August 1915 resolved that Sir Rabindranath Tagore, Kt., D.Litt., Dr. J.C.Bose, CSIMA D.Sc., Dr. P.C.Ray C.I.E., PhD., D.Sc., FCS., and Mahamahopadhyay Haraprasad Sastri C.I.E., MA, be invited to deliver courses of lectures on some subjects to be chosen by themselves during the session 1915-16. (pp-2099,2139)

The Syndicate in a meeting dated 3rd December, 1915 resolved to request to examine the essay 'On the History of Ancient Indian Medicine with special reference to the Vedic age' by P.C.Ray, B.N. Seal and Lalmohan Ghoshal. (pp-2719,2727)

The Syndicate sent by circulation a resolution to all the members on 30.10.1916 distributing the fellows among the Faculties and the Boards of studies in Chemistry and Zoology. (P-2105)

In a meeting of the Syndicate dated 17th Nov 1916 a letter from a sixth year student in Chemistry, seeking permission for research work on specific organic compounds at the M.Sc. Examination in July 1917 in lieu of Examination in Physical and Inorganic Chemistry was granted as it was endorsed by Dr. P.C.Ray. Later on the student became famous for his research works – he was Praphulla Chandra Guha. (pp-2107,2119)

In the meeting of the Syndicate dated 17th Nov, 1916 the draft letter of the Registrar in reply to the Govt. of India was placed in the meetings of the Syndicate dated 4.07.1917 and 11.05.1917. Resolutions were taken relating to T.N.Palit endowment resolving issues.

The Syndicate in the same meeting on 17th Nov 1916 decided to approve the letters drafted by the Registrar to the 'Secretary, Government of India on Post Graduate studies of the University'. It may be mentioned that a detailed report

sent by the University earlier and clarification sought afterwards by the Government in its letter dated 10.6.1915 and 14.10.1915 was clarified in this letter. As to query of the resolution of the T.N.Palit Trust Governing Body and the management of Rashbehary Ghose Trust and of the Syndicate, the Vice-Chancellor would communicate this issue in his ensuing visit to the office of the Secretary, at Simla. The following classes in MA and M.Sc. had to be maintained by the University e.g.

a) English.
b) Sanskrit.
c) Pali.
d) Arabic.
e) Persian.
f) Comparative Physiology.
g) Philosophy.
h) Economics.
i) History.
j) Pure Mathematics.
k) Botany.
l) Geology.

No Provision should be there in any affiliated colleges for instruction up to the MA standard of those subjects. Though Presidency College started teaching few subjects in MA at the initial stage of PG teaching in the University as there was no sufficient space in the University and the University lecturers were arranged in the Presidency College In the letter clarified some of such affillation in Dacca, Cotton College in Gauhati etc. In all those cases due to shortage of classes temporary demands of arranging classes in those colleges were done as done by Dacca University and Patna University in their neighboured colleges. Detailed picture of the grants received by the Government along with University's contribution at the tune of Rs. 1,97,000/- was shown in this letter. The names of representatives of the University from Calcutta Colleges were also included in the Governing Body of affiliated colleges where P.G. classes started. Some of the 'admitted defects' as referred to in Govt.'s letter surprised the University authorities when it was mentioned In the said letter that "the government feel themselves unable to give any definite approval of the scheme sent by the University". Another important question give rise to by the attitude of the Government when the University was able to recover a sum of Rs. 1,80,407/- from the owner of the market from whom the land was purchased but that amount was not transferred from the Govt. of Bengal to the University. The question of defects existing in affiliated colleges where PG was taught had already been worked into and further cooperation from those colleges was also sought. In this letter the outstanding role of teachers and

particularly the donation of full salary to the University by P.C.Ray, Palit Professor, in Chemistry was also mentioned. (pp-2119,2192-2198)

In the Syndicate meeting dated 21st Dec 1916, it was reported to the Committee appointed by the Govt. of India on certain matters in connection with the PG teaching in the University (Dr. P.C.Ray was one of the members of the said committee). (P-2808)

The Syndicate in a meeting dated 19th Jan 1917, resolved to appoint examiners in MA/M.Sc. Examination, 1917 Dr. P.C.Ray was appointed convener in Chemistry in M.Sc. Examination 1917. Dr. P.C.Ray was appointed convener in Chemistry in M.Sc. examination as well as in B.Sc. Chemistry Honours examination in Patna Centre and Civil Engineering College Centre. (pp-49-51,74)

The Syndicate in its meeting dated 26th Jan 1917 resolved to appoint Dr. P.C.Ray as paper-setter in Chemistry in I.Sc. / B.Sc. examination in 1918.

(pp-179,198,209)

The Syndicate in a meeting on 23rd Feb 1917 ordered to record a letter from DPI, Govt. of Bengal Conveying 'the sanction of the Govt. to the transfer of services of Dr. P.C.Ray to the Calcutta University for employment as Sir T.N.Palit Professor of Chemistry w.e.f. 2nd November, 1916.' (pp-383,386)

In the said meeting about the publication of Original papers a 'committee is formed consisting of Sir Asutosh Mookerjee, Dr. P.C.Ray, Dr. Ganesh Prasad, Mr. C.V.Raman, Dr. P.C.Mitter and Dr.Brühl (Secretary) to draw up the scheme.' The meeting also resolved to refer a thesis paper to the committee consisting of 3 members – Dr. P.C.Ray was one of them. The application of P.C.Ghosh, who stood 1st class 1st in main Chemistry and willing to go to London University for his D.Sc. degree and for that purpose his need of Rs. 50/- per month from the TN Palit fund was forwarded by Dr. P.C.Ray and Dr. P.C.Mitter and the Syndicate dated 11.5.1917 resolved to refer it to the Governing Body of that fund. In the same meeting Nagendranath Sen's application forwarded by these persons for award of Scholarship from the Rashbehary Ghose fund, was awarded w.e.f. 1.1.1917. (pp-805,807,810-12)

As per recommendation of Dr. P.C.Ray and Others the affiliation of City College to B.Sc. Pass standard in Chemistry and Mathematics in Pass and Honours Standard was recommended by the Syndicate in its meeting dated 4.7.1917 to the Senate. (pp-1111,1148-50)

The meeting of the Syndicate on 27th July, 1917 approved the action taken by the Secretary receiving Rs. 30,200/- being the principal and interest due from Sir Rabindranath Tagore to Sir TN Palit Estate. (pp-1247,1320)

In a meeting of the Syndicate where the Report of the Syndicate for the year 1917 was reported the Governing Body of sir T.N.Palit and Ghosh endowments for the years 1917-18 was reconstituted with Dr. P.C.Ray as one of the

members in the Board of Management. In the Post Graduate council teaching in Science in 1917-18 Dr. P.C.Ray's was name approved as one of the members. In the same meeting the achievement of the Chemistry Dept. in 1917 was reported and P.C.Ray's along with others publications of research Papers published in National and International Journals were reported. In that meeting the Speaker's name of the extension lectures for the year 1917-18 was reported and Dr. P.C.Ray's content of lectures were 'Pursuit of Chemistry in Bengal'. Extension lectures delivered by J.C.Bose and P.C.Ray in Bombay and in Madras were exemplary in the sense that Bengal's supremacy in the field of science was established. In the meeting of the Senate academic discussions continued and the standard of Honours Examinations were discussed and improvement of it suggested and for that a 5-member committee, was formed where P.C.Ray was one of them. The fellows of different Faculties for the year 1918 were recommended by the Syndicate in its meeting dated 16.7.1917. P.C.Ray's name was in both the Arts and Science faculties. (pp-2055,2266-68)

The report of the Syndicate for the year 1917 about the activities of the Chemistry Dept. shows that the results of the examinations were satisfactory as as well the 'output of original work both as regards quality and quantity was quite good'. The list of publications were also placed. The reports were submitted by Dr. P.C.Ray and Dr. P.C.Mitter. (pp-2533,2593,2606,2607)

In a meeting of the Syndicate 16 Oct 1917 (pt VI): attention was drawn to few schools in Rangoon. Problems relating to the fund of Taraknath Palit was discussed and solved where P.C.Ray was in the GB. Regarding results of MA examination, letter from the Board of Examiners was also discussed wherein P.C.Ray was one of the members. He was also a member of the fellowship of the faculty of Arts and Science.

(pp–2055, 2071, 2075, 2083-2085, 2266-2268. Proc 3930.4192)

On 21st Dec, 1917 Syndicate meeting for the IA and ISC examination, 1920 the books written by P.C.Ray namely 'Elementary Inorganic Chemistry and Practical Inorganic Chemistry' was recommended (*both these books are reprinted and available in Vol I and Vol II of Acharya Prafulla Chandra Ray – a collection of writings. – Editor*)

Report of the Syndicate for the year.1917 Constitution of Senate, Syndicate, Board of Studies etc were formed and P.C.Ray was in the Senate and Board of Faculties of Arts and Science. (in the Board of Studies in Chemistry). In the GB of T Palit and Ghose Endowments P.C.Ray was a member and the decision of the GB to fit-up the Building on the ground at no 35, Ballygunge Circular Road as a Biological Laboratory and residential quarters for the Professors and students in Botany and Zoology. P.C.Ray was in the Board of management of Sir Rashbehary Ghosh Endowment for 1917-18. He was also in the council of PG Teaching in Science and in the Board of Studies in Chemistry, Geology. The report of the Chemistry Dept. for 1917 was submitted by P.C.Ray and PC

Mitter. The first series of extension lectures was published and one of these was 'Pursuit of Chemistry in Bengal ' by P.C.Ray. Both in Honours Level in theoretical and practical examination P.C.Ray was one of the examiners in MA/M.Sc. examination also he was one of the examiners.

(pp--2533, 2534, 2537, 2538, 2542, 2583, 2589, 2590, 2591-2593, 2606-2610, 2713-2739,)

On 12th Jan. 1918 in the Senate P.C.Ray as a member.

On 26th Jan. 1918 in the Senate P.C.Ray as a member of the senate, Faculty of Arts, Faculty of Science.

On 1st March 1918 in the Senate P.C.Ray's presence as a member was noted. (pp-113,114)

On 2nd March 1918 in the Senate (Convocation), the role of Professors in the Dept. of Chemistry was highlighted where, though work had been considerably handicapped by the practical stoppage of the supply of chemicals and apparatus from Europe, the output of original work both as regards quality and quantity was good, as the long list of contributions to the journals of learned societies concerned indicated, and P.C.Ray was mentioned a number of times.

(pp-165, 166, 178, 192-198)

In the Convocation on 2nd March, 1918, in the presence of Dr. P.C.Ray, the role of Chemistry Dept. was highlighted, and particularly Dr. P.C.Ray's role. Dr. P.C.Ray's lecture at Madras was also mentioned and for such actions the University's sense of pride was mentioned in the speech of the Vice-Chancellor. (pp-165-66,178,192-98)

On 9th March 1918, in the Senate meeting, a serious question arose whether our system of judging the students from the marks as awarded by the University (4 written and 2 Practical examinations in Honours) was justified. No less a person than Asutosh Mookerjee and the Senate proposed to set a committee to look into the matter for seeking suggestions. P.C.Ray was one of the members of that committee. (pp-87,110-112)

In the meeting of the Senate dated 23rd March, 1918 Dr P.C.Ray seconding the motion in favour of affiliation of Bagerhat College, Khulna to the I.A. Standard reported that the people of the locality were highly enthusiastic about the matter and though they could manage to raise only Rs.50,000/- at that moment because of low prices of jute and paddy, they would live up to their promise once the price went up. The Senate resolved that since the promoters were interested in depositing the fund to the account of Dr. P.C.Ray they be permitted to do so . In the same meeting it was mentioned that the Government of India in a circular prescribed that colleges should be established

in mofussil areas so that the flow of Students to the towns were restricted.

(pp-225,250,251)

On 25th Jan 1919, in the Senate meeting P.C.Ray's presence was noted. P.C.Ray was elected for one more term in the court of visitors of the Indian Institute of Science Bangalore, as a representative of the Calcutta University for the year 1919-20. P.C.Ray among others was elected to the GB of the College of Science for the management of the of Science. He was also in the management of the Ghose endowment. (pp- 99,100,105, 106, 108, 208, 209, Proc-4,5.)

In the meeting of the Senate dated 14th June, 1919 important debate took place where Sir Asutosh Mookerjee, Rai Chunilal Basu Bahadur, Dr. Suresprasad Sarbadhikari, Principal G.C.Bose, Manmatha Nath Ray, Dr. P.C.Ray among others took part. Many speakers spoke for the justification of increase inexamination fees but P.C.Ray 'objected to the manner of raising the money'. P.C.Ray said "This increase in fees will tell very harshly on the guardians of the students". He objected to the manner of raising the fees. He also cited the example of Rockefeller and Carnegie who were going to support or fund research Scholarship in America. Dr. P.C.Ray in his educative speech opined that even the Finance Minister of the state for the past few years was hesitating to increase the TA on salt i.e. poor man's salt so there was no justification of raising fees again. "Has Bengal no other Sir Taraknath Palit or Sir Rashbehary Ghosh, who could supplement the revenues of the University?" he asked. "Has Bengal seen the last of our philanthropists? Am I to understand that the race has become extinct?" His argument continued citing examples from different countries in the world and that Bengal was the solitary example where the increase of expenditure had to be borne by the students. The debate continued and some weighty arguments were also placed in favour of increase of fees including the speech of the Vice-Chancellor. Finally the motion was put to vote in the absence of Sir P.C.Ray and was passed and this increase in examination fees of the students was introduced. At that time tuition fees in the PG Arts classes were Rs. 5/- and Rs. 10/- in the Science classes.

(pp-241,247-270)

In the meeting of the Senate on 23rd August, 1919 a lively discussion to highlight the achievements of the Calcutta University was nicely put by Sir Asutosh Mookerjee under the chairmanship of Sir Nilratan Sircar, Vice-Chancellor. On Maithili a lectureship was established by the endowments of Raja Kirtani Singh of Ranchi for 6 year term for the purpose of research. Lectureship of Maithili by the donation of Taraknath Chowdhuri of Dinajpur was established . In Bengal Babu Susil Kr. De and Suniti Kr. Chatterjee came forward with valuable monographs on Bengali Language and Literature. Dinesh Ch. Sen had done profile works in Bengali.

In Mathematics, on the theory of Plane curves. Surendramohan Ganguli's valuable treatise and the publications of papers by the faculty members of the

Pure and Applied Mathematics in the Bulletin of Calcutta Mathematical Society were noted. In many reputed European and American journals, bulletins the papers of top quality were regularly published by the faculty members of different Depts. Quality papers were also published in the reputed national and international journals including The Philosophical Magazine, The Physical Review, The Astrophysical Journal, The Proceedings of the Royal Society of London of the staffs of the University. In the Bulletin and Memoirs of the Indian Association for the cultivation of Science, the Journal of Asiatic Society of Bengal the papers of the faculty members of many Depts. of the University were published.

The names of notable researchers, such as Prof C.V.Raman, Dr Sudhangsu Kr. Banerjee, Dr. D.N. Mallik, Phanindranath Ghosh, Sisir Kr Mitra in Physics, and Dr. P.C.Ray, Dr. P.C. Mitter, Dr. R.L. Dutta, Dr. J.C. Ghose, Dr. B.B. Dey, all reputed members of the Calcutta School of Chemistry, founded by P.C.Ray, were mentioned. Two Journals from the Chemistry Dept, were published. "Nothing of this sort has been achieved by any University of India at that time", P.C.Ray said. Hence, "Calcutta University is unique in academic affairs in those days". The donations and contributions from others were numerous and the role played by the entire team were well known. (pp-291,299,319,353-55)

The meeting of the Senate on 14th August, 1920 resolved that Sir P.C.Ray be granted 5 months, leave with full pay w.e.f. 20.08.1920 to study in England and to have a first-hand knowledge of the latest developments in Chemistry and Technological research. The mover of the resolution Sir Asutosh Mookerjee on behalf of the Syndicate also pointed out that, to utilize a very large gift to be donated by Sir Rashbehary Ghosh, for the Technological Dept. in the university, P.C.Ray be given an opportunity and it was resolved. (pp-407,409-10)

In the meeting of the Syndicate on 19th April 1921 the annual inspection of Presidency college during the session 1921-22 to be done jointly with the inspector of colleges, was resolved – a three member team of Inspectors was appointed with P.C.Ray as one of them. (pp-2,35)

In the meeting of the Syndicate dated 19th April 1921 under the chairmanship of Sir Asutosh Mookerjee, Vice-Chancellor, the proceedings of the Governing Body of Sir T N Palit Trusts (16.8.21) was discussed in detail including the bond that had to be signed by the recipients of the Scholarship. The applications of Snehamay Dutta, Jnanendranath Mookerjee, Jnanendranath Ghosh were discussed along with forwarding letter of Dr. P.C.Ray and was approved. Report of the Syndicate for the year 1921 including the constitution of Senate, Faculties, Syndicate, Boards of Studies and Board of Accounts was approved. On Sir T N Palit and Sir Rashbehary Ghosh Endowments the Governing Body of Sir T N Palit Endowment and the Board of Management of Sir Rashbehary Ghosh Endowment for the year 1921-22 were also approved. In both the above bodies, Dr. P.C.Ray was the member under the Chairmanship of the Vice-

Chancellor. Some valuable Information and documents were revealed from the correspondences, records, proceedings etc in the meeting of the Syndicate regarding the T.N. Endowment. (pp-1,2,35,85-94)

From the minutes of the Syndicate dated 13th May 1921 it revealed that the application of Dr. J.C.Ghosh dated 16.4.1921 informing his assignment in the Dacca University was considered and the Syndicate resolved that he be given the option to join either Dacca or Calcutta University . The letter of Jnanendranath Mukherjee received by the Calcutta University reporting his willingness to continue the works in the Laboratories if Prof. F.G. Donan, of the University of London was discussed and it was resolved that he be continued. At the same meeting a letter from the Dy. Secy. Govt of Bengal, Education Dept., conveying sanction to the re-employment of Sir P.C.Ray as T.N.Palit Professor of Chemistry was his full pension, in addition to the pay he draws. It was ordered to be recorded along with the meeting of the Syndicate on June, 24, 1921, the letter from J.C. Ghosh on the subject of his resignation from the post of this University and his appointment in the Dacca University was placed. Resolved to place the letter before the Governing Body of the T.N.Palit Trust. (pp-129,228,263,295,496)

In the meeting of the Syndicate on June 24, 1921 the report from the Govt. of Bengal, Education Dept. was read and recorded that Pension of Dr. P.C.Ray was sanctioned in addition to the pay during his reemployment period in the Palit Professorship. (It is known that Dr. P.C.Ray had already donated all his salaries due to the University). (P-496)

The meeting on November 3, 1921, the Syndicate resolved to convey cordial thanks of the Vice–Chancellor and Syndicate to Sir P.C.Ray for his donation of entire salary from the month of September onwards for the furtherance of the Dept. of Chemistry (both general and Applied) or such other purposes as the V.C and the G.B may deem fit. (P-84)

The meeting of the Syndicate on November 10, 1921 resolved that the report of P.C Ray conveying Dr. Jnanendranth Mukherjee's research work during the 2nd year term as Prem Chand Roychand Scholar be approved and be continued. Another letter of Dr. P.C.Ray informing the Registrar about the appointment of Kshitis Chandra Ray, a research assistant since last 7 years, the payment of whom was made by P.C.Ray from his own pocket as a permanent research assistant on a salary in the scale of Rs. 75-10-125 w.e.f 1st November, 1921. Resolved the letter be placed to the Governing Body of the University College of Science. (pp-140,85)

At the invitation of the Govt. of Bengal (Education Dept.) Regarding discussion of the proposed Universities Congress to be held at Simla for the Calcutta University, the Syndicate in its meeting dated November 10, 1923 resolved to recommend to the Senate 6 member's names as delegates to the above meeting and one of them was Sir P.C.Ray. (pp-149-151)

In a meeting of the Syndicate dated 31st Mar 1922, Dr. P.C.Ray's letter regarding the award of "Nagarjuna" Prize to the best piece of research work in Chemistry, Pure or Applied by any student working in the College of Science, from the donation of Rs. 10,000/-, which he was willing to hand over to the University, was placed. This was accepted and recommended to the Senate for approval. (pp-587-88)

In a meeting of the Senate dated 26th Aug 1922, a letter from the Secretary, Govt. of Bengal dated 9.8.1922, was placed and discussed. The letter was referred to the constitution of reconstituted Senate.

The proposal was: -

(a) 80% of the fellows of the University should be elected.
(b) The registered graduates of the University should be at least 60% of the fellows.
(c) The Senate resolved to form a Committee under the chairmanship of Vice-Chancellor and 12 other members including P.C.Ray where 7 members should form a quorum. The Govt. is eager to receive the views of the Vice-Chancellor and senate. (pp-389-404)

In a meeting of the Syndicate dated 3rd Nov 1922, an appeal of P.C.Ray for donation of his entire salary from the month of September 1922 for the Dept. of Chemistry or for such other purposes as the Vice-Chancellor and the Governing Body may deem fit, to the university was considered. It was resolved to accept the offer.

In a meeting of the Senate dated 11th Nov 1922, the Preliminary Report of the 7 member committee was placed – the entire document regarding the formation of the Senate was there. (pp-506-515)

The report was signed by all the 7 members on 3rd Nov 1922.

Sd/- Asutosh Mookerjee.
Sd/- Nilratan Sirkar
Sd/-Heramba Chandra Maitra
Sd/-Girishchandra Bose
Sd/-P C Ray
Sd/-George Howells
Sd/- T H Richardson
Sd/-N S Urkuhart
Sd/-R N Gilchrist
Sd/-Allex R Murray

In a meeting of the Syndicate dated 1st Dec 1922, the letter of P.C.Ray and five other members of the senate, addressed to the Vice-Chancellor to discuss an important issue regarding the publication of an article in the "Bengali" at the request of the Govt. Of Bengal (Publicity Dept.), was discussed, and after a

lengthy debate an amendment was moved and carried out with two dissident votings. It would be brought to the notice of the Chancellor with a request for full enquiry how the Govt. of Bengal came to request the "Bengali" to publish the article in the 'Times Educational Supplement' relating to the financial condition of the Calcutta University.

The fundamental points raised were:

(a) The financial administration of the University, raised in the report of the Accountant – General, is pending before the Senate for scrutiny. Pending the discussion of the Senate how the publicity dept, of the Govt. of Bengal could proceed to publish it in the press.
(b) The article in question did not state fact but opinion.
(c) The publicity office should not circulate such adverse opinion ignoring the opinion of the University. (pp-277-280)

In a meeting of the Senate dated 2nd Dec 1922, while discussing the report of the Govt. grants committee (appointed on 9.9.1922), P.C.Ray supported the adoption of the Report. The argument put forward was inadequacy of the grant. The contribution was 8% of the total of the Govt., though as per the Accountant General's report there was no mention of misappropriation of the University funds. *For rehabilitation of Railways Govt. decided to use Rs. 150 Crore, and why only Rs. 1.5 cores for rehabilitation of the University could not be sanctioned?* - he asked. Long debate continued and the Vice-Chancellor made a lengthy argument for liberal grant for the University and ultimately it was decided by putting it to vote, and none was found to be against the motion. The freedom of the University in no way be handed over to the Govt. - the Vice-Chancellor concluded. *"Forget the Government of Bengal. Forget the Government of India. Do your duty as Senators of this University, as true sons of your Alma Mater. Freedom first, freedom second, freedom always – nothing else will satisfy me."*

In the meeting of the Syndicate dated 31st Aug 1923, a letter both from the DPI and Sir P.C.Ray as President of the Naihati Union Institution, in the Khulna District was placed with the request for provisional recognition of the School upto 31st December, 1925. In the said letter it was revealed that the pay of the lowest teacher in charge of the infant class was Rs. 20/- per month. (P-365)

In a meeting of the Syndicate dated 5th April 1924, the inspection Report of Bagerhat College, Bagerhat, Khulna for the year 1923 – 24 was accepted where the president of the Governing Body of the College was Dr. P.C.Ray. (P-59)

In a special meeting of the Senate on 14th June, 1924 the Chancellor Victor Alexander George Robert Bulwer – Lytton presided and more than 50 members were present to mourn the sudden death of Sir Asutosh Mookerjee and Sir P.C.Ray moved a resolution "That a suitable memorial be established for the perpetuation of Sir Asutosh 's memory in connection with his great work in the

University and a committee be formed". He also quoted Lord Ronaldshay, the earlier Chancellor of the University, 'The reputation of the Calcutta University that has spread throughout Europe and other foreign parts for its research work in connection with the Post graduate Dept. on the Literary and Scientific lines is mainly due to Sir Asutosh Mookerjee'. It was passed.

(pp-165-166,175-176)

On 20th Feb 1925, In the Syndicate meeting, for Bethune college the Govt. of Bengal sent the names of the members with the DPI as the President and P.C.Ray as one out of 12 members. A letter from P.C.Ray requesting the University to grant an advance to J.N.Ray who had been awarded Palit Scholarship through P.C.Ray. It was read out and resolved.

(pp-425, 559 Proc 103, 60)

On March 27, 1925, the proceedings of the GB of Science college dated 5th March, 1925 was approved, where P.C.Ray's name was noted and the budget for the year 1925-26 also approved. A motion moved on (1) the prospect of teacher in High schools in Bengal. (2) For holding annual conference of teachers at different centers (3) for conducting a teacher's journal dealing with educational matters concerning teachers and (4) for creating a fund for the distressed teachers and making provision for their widows and orphans after their deaths – At Gaibandha under the presidency of P.C.Ray the 2nd conference inaugural function was held and the Association had been registered under the Act xxi of 1860. It was ordered the Secy. of the ABTA (non Govt) be asked to furnish the Syndicate with the necessary details. In the Syndicate meeting it was reported that the inspection report of the City college (inspected on 22.9.24)and the GB of the college was reconstituted with P.C.Ray as one of the members. (pp--626,627, 661)

On Sept 4, 1925 the Syndicate in the meeting, for the appointment of a Boilerman for Applied Chemistry Dept. a sub-committee was formed with P.C.Ray as one of the members. (P-4, proc 17)

On Feb 12, 1926, the Syndicate in its meeting P.C.Ray was appointed an examiner in Chemistry, in both Pass and Honours in B.A. and B.Sc. for attending the meeting of the Australasian association for the advancement of Science to be held in Perth in the 3rd week. of Aug, 1926, P.C.Ray's invitation was honoured and a conveyance allowance of Rs. 2000 was approved and recommended to the Senate. In the same meeting the Report on the Indian Association for the cultivation of science was placed which was inspected on 16.12.24 and P.C.Ray as Vice-President functioned there. (pp--225,458, 465, 562 Proc. 55)

On March 5, 1926 the Syndicate in its meeting for Preliminary Scientific examination in inorganic Chemistry selected P.C.Ray as examiner in inorganic chemistry for Preliminary Scientific examination. (pp-628, 641)

On Sept 17, 1926, in the meeting of the Syndicate a letter from P.C.Ray and two others was placed and it was resolved that the B.Sc. examination of the Bombay University be treated as equivalent to the B.Sc. (Honours) in Chemistry of Calcutta University and the school students who got first class marks be treated as Honours Graduate of Calcutta University. A letter of P.C.Ray recommending B.C.Guha M.Sc. was read and he was granted Palit research scholarship in Chemistry in place of Praphulla Kumar Bose whose term expired on 31st July 1926 (from the Board of Khaira Fund).

(pp-2436,2610, 2611, 2621 Proc 3)

On Oct1, 1926, the Syndicate in its meeting a letter of the Secy. to the Govt. of Bengal being number 3211edu dated 23rd Sept, 1926 showing the comparison of the GB of Bethune College where in P.C.Ray was amongst the members was placed and read a report from the Board of Adjucaters for the Nagarjuna prize for 1925 recommending Praphulla Kumar Bose for his thesis which was accepted and P.C.Ray was one of the signatories of the report (dated 21.12.1926).

(pp-2672, 2674, 3281, 3279,Proc.22)

On 1926, the Syndicate announced the Board of examiners in Chemistry with P.C.Ray as chairman P.C.Ray was also selected as paper setter in (Pass and Honours) Chemistry. On 13th March, 1926, in the meeting of Faculty of Science, the minutes were confirmed where P.C.Ray acted as Dean, Board of Studies of Chemistry formed and minutes of the Faculty of Science of 13.12.1926 are also confirmed. (pp-153, 154-156)

Few important suggestions were placed jointly by P.C.Ray and two others for Practical in Physical, Inorganic and Organic for the academic session 1927-28. P.C.Ray as being sent by the Asst. Secy. Govt. Of Bengal dated 14.1.1927 as a nominee in the Governing Body of Bethune College was recorded. When P.C.Ray expressed his willingness to retire from Palit Trust body for the junior member he was persuaded to retain the Palit Professorship for another 5 years beyond 65. P.C.Ray desired to continue as Emeritus Professor as usual.

As Bires Chandra Saha resigned from Palit Research Scholarship w.e.f. 1st January, 1927, Nirmalendunath Ray was recommended as he stood 1st among first class M.Sc. in Organic Chemistry as recommended by P.C.Ray.

(pp-171, 202, 206, 257, 312, 313.Proc 6)

On July, 12, Pt III, Aug 13, Sept 2, 1927 in the minutes of the Syndicate it was revealed that the owner of the premises no 13, Girish Vidyaratna lane hadopened two unauthorised windows overlooking the ground of the Science College and also demolished a portion of the boundary wall of the Science College. After P.C.Ray's intervention owners agreed to give an undertaking that he would close the windows as and when required by the University as reported by the chief engineer of the University. Letters from two more

members, in this connection, were placed and it was resolved that the Vice-Chancellor be requested to hold a personal enquiry.

For workshop bill payment order was placed and that was in the name of P.C.Ray, C.V.Raman and such others which was resolved.

(pp-1766, 2064, 2065, 2196, 141.Proc 30)

In 1927 Syndicate P.C.Ray's name in the Faculty of Science as member wasrecoded. In a Syndicate meeting first gift of Sir Rashbehary Ghosh fund amounting Rs. Ten Lac and Sir Tarak Nath Palit foreign scholarship fund of Rs. 1,06,300 and P.C.Ray's gift of Rs.61749 to the Science college was recorded. (pp-17,140)

On 12th Feb, 1927, the minutes of Faculty of Science etc, for the year 1927, were recorded P.C.Ray was elected Dean for the year 1927-28 in a meeting on 12.2.1927. P.C.Ray's publication of several papers in the journal of Indian chemical society was also recorded. Regarding a proposal that a Professor should vacate his post upon completion of his 60th year and the post should be advertised every time a vacancy occurs, P.C.Ray as member of the Senate, had given a notice, seeking an amendment to the effect that the professor shall have the right in case of a difference of opinion, to refer the matter to the Senate, whose decision would be final. In all the meetings' of the Faculty Council of Science in the year 1928 P.C.Ray chaired as Dean. (pp-57,85, 242, 585)

In a meeting of the Senate dated 28th July 1928, Dr P.C.Ray's letter was discussed. In that letter Dr. P.C.Ray pointed out the discrimination of the salary of the whole times of endowed chairs under Ghose and Khaira Trusts which was less than that of regular Professor's. There should be provision to remove the discrimination in the budget proposal of 1928-'29. (pp-545-546)

On 28th July, 1928, in the Senate meeting a debate arose on the letter of P.C.Ray for equalisation of salary of all the Professors and whole time holders of endowed chairs under Shree Ghose and Khaira Trusts. In that letter he said that no distinction should be made in fixing the salaries of our Professors. The fact that some public spirited citizens had come forward to endow these chairs on an initial salary of Rs. 500. He observed that they should be given the same status as regards to the pay, namely Rs. 600 to Rs.10,000 and hoped that the Senate would see its way to remove this inequality which according to him looked almost invidious. The holders of these chairs had distinguished European education and there was no reason why they should have a lower pay than other professors.

(pp-533, 545, 546 Proc 8)

On 8th Dec, 1928, in the meeting of the Faculty of Science P.C.Ray as chaired Dean. Work in progress in the PG Dept. of Chemistry showed that P.C.Ray and his collaborators had published 5 original Papers including 2 on valency of

platinum in the journal of the Indian Chemical Society. Further work in these lines were in progress. (pp-745,746, 831)

On Jan 12, 1929, the Senate in its meeting placed a proposal regarding a donation of Rs. 1½ Lac from Sailasuta Devi, widow of Radhikamohan Ray to the University on conditions as laid down, and it was accepted. It was named Radhika Mohan Scholarship Fund and the Governing Body was formed as per desire of the donor with the Vice-Chancellor as chairman and P.C.Ray as one of members. (pp-13-19)

In the Senate meeting dated 12th Jan 1929, the decision regarding permission of taking the *'gift of 31½ percent Government Provisionary note of the face value of Rs. 1,50,000/- made by Srimati Sailasuta Debi, widow of the Late Babu Radhika Mohan Roy, In favour of the University ..... be accepted'* – Prof. Syamaprasad Mookerjee declared.

It was resolved that 'Radhikamohan Scholarship Fund' be given to a 'Bengalee Brahmin' maintaining the terms and conditions. The Governing Body, as per desire of the donor, be comprised of 6 members including the Vice-Chancellor and Dr. P.C.Ray, as decided by the Senate. (pp-13-19)

On 26th Jan, 1929, In the Senate meeting P.C.Ray's Presence (Faculty of Science) was noted. (P-73)

On 25th Feb, 1929, the Faculty of Science, P.C.Ray as Dean chaired the meeting. Few new members were added in the committee. One of them was Prof. Nikhilranjan Sen. (pp-214-218)

On 19th March, 1929, the Faculty of Science, P.C.Ray was in the Board of Studies in Chemistry as a member. (pp-293,299-301)

In a special meeting of the Senate dated 24th Aug 1929, Mr Syamaprasad Mookerjee moved that the fund generated out of the accumulated salary of Sir P. C. Ray be utilized in –

(1) Rs. 5000/- be spent for the extension of Inorganic Chemistry Laboratory.
(2) Rs. 10,000/- be spent for the equipment of Inorganic research laboratory.
(3) Rs. 10,000/- be paid to Indian Chemical Society for a Contribution towards its building fund.
(4) The rest be funded for the research fellowship in Chemistry of the value of Rs. 200/- mensem. The entire amount is Rs. 90000/- (pp-645-655)

On 13th Dec, 1929, the Faculty of Science (Spl) meeting P.C.Ray chaired. (pp-7,11-13)

On 13th March, 1930, the Faculty of Science, the Board of Studies of Chemistry was formed with P.C.Ray as one of the members. (pp-148,149)

On 31st Jan, 1931, in the Senate meeting the Faculty of Science was approved with P.C.Ray as one of the members and Boards of Studies are formed with P.C.Ray in the Board of Studies in Teaching.

On 19th Jan, 1932, the Faculty of Science (Special) meeting P.C. Mitter's name is proposed by P.C.Ray for election as ordinary Fellow. On 30th Jan, 1932, the Senate P.C.Ray's name in the Faculty of Science was approved. (pp-15,16,23)

On 3rd March, 1932, the Faculty of Science meeting P.C.Ray as one of the members in the Faculty of Science was approved. (pp-161,165)

On 29th March, 1932, the Faculty of Science (Special Board of Studies for the year 1932-33) was formed and P.C.Ray's name was proposed as a member for the Board of Studies in Chemistry and was put to vote. The Dean declared P.C.Ray among other elected.

On 21 Jan, 1933, the Senate after election P.C.Ray was declared as one of the members in the Faculty of Science and afterwards in the meeting (6th March 1933) of the Faculty of Science. The Board of Studies of Chemistry was formed where P.C.Ray was declared elected.

On 27th Jan, 1933, the Senate in its meeting resolved that P.C.Ray be in the Faculty of Arts and Science as member.

On 17th March, 1934, the Faculty of Science resolved that P.C.Ray be in the Board of Studies in Chemistry for the year 34-35.

On 23rd June, 1934, the Senate (Special) in its meeting decided that Sir P.C.Ray Fellowship fund be created.

On 28th July, 1934, the Senate meeting P.C.Ray's presence was recorded.

In the meeting of the Senate dated 26th Jan 1935, the name of P.C.Ray, as a member in the Faculty of Science for the year 1935 -36 was approved. In the same Senate meeting, in presence of P.C.Ray as member of the senate, Mr. Charu Chandra Biswas moved that a sum of Rs. 3000/- be granted to the Hindu Academy- Daulatpur, out of Sir Praphulla Chandra Ray Research Fellowship fund, as Rs. 10,000/- still available in the fund. An interesting debate arose which was clinched by the Vice-Chancellor and 'the resolution was then put and carried nem con .' (pp-21-28)

On 26th Jan, 1935, the Senate meeting P.C.Ray's presence was recorded and his name was in the Faculty of Science as member. P.C.Ray donated his salary to the University in this meeting. Mr Charu Chandra Biswas member, Senate, argued that if the donor and the donee both agreed there was no difficulty in utilising the fund in any way. That was in agreement of the both the parties and as per desire of P.C.Ray after utilising the fund for the University a sum of Rs. 3000 might be given to Daulatpur Hindu Academy with the concurrence of the Senate and Syndicate. The Vice-Chancellor concluded, that after utilisation,

there was a balance of Rs.10,000 in the fund and no difficulty would arise to honour the donors wish. The resolution was then passed.

On 23rd March, 1935, the Faculty of Science meeting, Boards of Studies in Chemistry was formed and P.C.Ray was elected one of the members for the yr.1935-36.

On 25th Jan, 1936, in the meeting of the Senate P.C.Ray's name was recommended for election to the Faculty of Arts, Faculty of Science and in the special meeting of Faculty of Science. P.C.Ray also particlpated.

In the meeting of the Senate on 25th Jan 1936, Dr. P.C.Ray's name among others were declared in the Faculty of Arts and Faculty of Science. (pp-21-23)

On 23rd Jan, 1937, meeting, the Senate proposed and recommended for election to the different Faculties. and P.C.Ray's name was recommended forthe Faculty of Arts and Faculty of Science P.C.Ray was elected in the Board of Studies In Chemistry.

In the meeting of the Senate dated 26th June 1937, approval was given to the resolution of the Syndicate that Sir Praphulla Chandra Ray be made Emeritus professor of Chemistry w.e.f. 1st July, 1937 the date on which he retired from service of the University as Palit Professor of Chemistry. The Vice- Chancellor apprised the members of the two resolutions of the Taraknath Palit Trust for acceptance of the Senate. Our gratitude to P.C.Ray was not because of his great scientific works but of greater importance for the founding of School of Chemistry from where some brilliant men of science had gone to different Universities or in the field of industrial regeneration of the country. P.C .Ray proved himself to be a great industrialist by establishing Bengal Chemical and Pharmaceutical Works Ltd. And he had proved a benefactor of not only the University but of mankind in general. For the last 14 yrs. he had served the University without drawing his monthly salary and more than a Lac of Rs. he donated for the higher study and research in Chemistry. (pp-374-376)

In the meeting of the Senate dated 18th Dec 1937, a lively debate commenced on a Report submitted by the committee appointed by the Syndicate to consider the revised draft bill for the 'Regulation and control of secondary Education in Bengal' forwarded by the Government of Bengal to the University for expression of opinion. The unanimous report of the 7-member committee where P.C.Ray and six other stalwarts of the Senate members who were in that committee, was well known to the members. Vice-Chancellor Syamaprasad Mookerjee, while speaking on the Bill, clarified that, attempts had been made from time to time by the Govt. to introduce piecemeal legislation to give colourable effect to some of the proposals embodied in that report, but they fell practically still-born, and the reason was not far to seek. He also clarified that, University had never opposed the bill of not to speak to opposing now but to ask for genuine Board Concept. He also opined, that merely transferring the power of granting recognition to schools from the University to a 'Glorified

Dept. of Public Instruction' would solve the problems. He also opined looking at the Bill, one could not help suspecting 'that the object is not so much to set up a competent body to look after the true interest of Secondary Education in Bengal, but only to tighten the control of the Dept. over it on the one hand, and ponder to communal demands on the other.'

The Vice-Chancellor concluded by saying that 'Only to tighten the control of the Dept. over it on the one hand, and ponder to communal demands on the other. That way salvation does not lie, and let it go forth from the Senate of the Calcutta University today with one voice that it can never lend its support, to such an obnoxious measure.' Seconding the motion Sir P.C.Ray said, 'I have much pleasure in seconding This motion.....' The Senate adopted the Bill unanimously. (dated 8.12.1937). The report of the committee, were in this minutes. (pp-546-555)

On Jan 12th, 1938, in the Senate, the faculties of Arts, Science etc. was constituted, and P.C.Ray's name was in both Arts and Science faculties.

On 2nd March, 1938, the Faculty of Science (Special) for the year 1938-39,elected the added members and P.C.Ray proposed the name of D.M.Bose, Head of the Dept. of Geology as an added member.

On 5th March 1938, in the convocation address Charles Freer Andrews memoired the experience of flood relief works of P.C.Ray and when Sir P.C.Ray gave the stirring call to the students during the flood to undertake the relief work, they flocked to him. They (the students) knew that 'there was nothing which he would invite them to undertake that he was not ready first of all to do himself'. (pp-228 -229)

On 19th March, 1938, the Faculty of Science (Special) met to elect the Board of Studies for the year 1938 – 39 and in the Board of Studies in Chemistry P.C.Ray was elected.

On 3rd Jan, 1939, the Faculty of Science (Special) Prof Himadri Kumar Mookerjee's name as an ordinary fellow in the Faculty of Science was proposed by P.C.Ray for election.

On 28th Jan, 1939, in the Senate meeting in P.C.Ray's presence Vice–Chancellor declared the faculties to be constituted and P.C.Ray was among the members of faculty of Arts and Faculty of Science for 1939 – 40.

In the meeting of the Senate dated 28th Jan 1939, P.C.Ray was present among others. P.C.Ray also became member of the Faculty of Arts, Faculty of Science and the Vice-Chancellor declared in that Senate meeting 'The Faculties to be constituted for the year (1939-40)'. (P-20)

On 27th Feb, 1939, the Faculty of Science P.C.Ray proposed the name of Prof Meghnad Saha, Palit Professor of Physics, Calcutta University as an added member, for this Board for the year 1939-40 for election and Prof Saha was elected. (pp-92, 95)

On 1st April, 1939, the Faculty of Science (Special) met to elect members of the Board of Studies and P.C.Ray was in the Board of Studies in Chemistry.

(pp-205, 206)

On 27th Jan, 1940, in the Senate P.C.Ray's presence was recorded. The Vice-Chancellor declared the names of persons in different faculties that were constituted and P.C.Ray's name in the faculty of Science was in the list for the year 1940-42. (pp-15-17, 20,21)

P.C.Ray attended the meeting of the Senate on 27th Jan 1940 as one of the members and his name as Faculty member in Arts and Faculty member in Science for the period of 1940-41 was approved. (pp-20,21)

On 17th Feb, 1940, in the meeting of the Faculty of Science (Special) P.C.Ray proposed the name of Dr. D.M.Bose, Director, Bose institute, as one of the added members in the faculty. (pp-81,82)

On 17th Feb, 1940, the Faculty of Science (Special) P.C.Ray proposed the name of Dr. Upendranath Ghoshal, Sr. Professor of History, Presidency college, as an added member in this faculty. (P-99)

On 2nd March, 1940, in the Senate (Convocation), the Hon'ble Vice-Chancellor, Prof. M. Azizul Haque, in his convocation address mentioned among others P.C.Ray's name with reverence and greater part of Ray's career in this University and pointed out that for him, the laboratory of the University was very much benefited. In regard to the grant of P.C.Ray of his 15 yrs. salary in this connection, he mentioned that,' Our college of Science can truly claim to be the nursery of eminent scientific and industrial research workers who have gone out to all parts of India and had given the best of their labour and knowledge to the development of scientific teaching and research into their respective spheres, many scientific workers in various Depts. of Government and in many Industries of India have gone out of these college. The Burma Oil Co placed a sum of Rs.33,000 to facilitate colloid research and for work on soil profiles in appreciation of the valuable work done by Prof J.N.Mukherjee (one of the favourite students of Sir P.C.Ray-'Editor') in connection with the company's work on drilling,

On 16th March, 1940, the Faculty of Science (Special) met to elect Board of Studies and P.C.Ray's name was proposed and the Board of Studies in Chemistry elected P.C.Ray as one of the members for the year 1940 -41.

(pp-224, 225, 228)

On 25th Jan, 1941, in the meeting of the Senate, the Vice-Chancellor declared that the faculties would be constituted and in the Faulty of Arts and in the Faculty of Science P.C.Ray's name was included.

In a meeting of the Senate on 25th Jan 1941, Faculties of Arts, Faculties of Science was constituted where P.C.Ray was still continued as one of the

members for the term 1941–42 . All the members of the these faculties had been elected by the faculties concerned as recommended by the Syndicate. It was also revealed that almost in all the meetings of these Faculties, P.C.Ray was present. In the meeting of the Senate on 30.4.1943 the Vice-Chancellor (Sri Bidhan Chandra Ray) announced the names of Faculty members in all the Depts. of the University and in the Faculty of Arts and Science. P.C.Ray was one of the members for the year 1943-44. The meeting of the Faculty of Science was held on 3rd April, 1943 under the Chairmanship of the Dean of Science, Prof. Meghnad Saha, the beloved student of P.C.Ray. Sir P.C.Ray was present in that meeting.

On 4th April, 1941, in the Faculty of Science (Special) and Faculty of Arts and in both the Faculties of Arts and Faculty of science P.C.Ray was declared elected. (pp-206,209)

On 20th Jan, 1942, in the Faculty of Science (Special) meeting P.C.Ray proposed the name of Prof. Praphulla Chandra Mitter, Palit Professors and head of the Dept. of Chemistry, as an added member in this faculty.

On 31st Jan, 1942, in the meeting of the Senate , the Vice-Chancellor. declared the constitution of Boards of Studies in Arts and Science and P.C.Ray's name was in both the faculties.

On 28th March, 1942, the Faculty of Science (Special) met to elect the Board of Studies and P.C.Ray's name was recommended for election to the Board of Studies in Chemistry and he was declared elected by the Dean.

On 15th Sept, 1942, in the Faculty of Science (Special) meeting P.C.Ray proposed the name of P.C.Mitter for being considered as a member but as the candidate declared not to contest the election, Prof. Meghnad Saha, the Dean then remaining candidates elected for the remaining session of 1942-43.

On 30th Jan, 1943, in the Senate meeting different faculties were constituted and P.C.Ray's name in the Faculty of Arts and Faculty of Science was declared by the Vice-Chancellor.

On 3rd April, 1943, the Faculty of Science (Special) met to elect the members of the Boards of studies and P.C.Ray's name in the Board of Studies in Chemistry was declared for the year (1943-44). (P-137)

On 10th Jan, 1944, the Faculty of Science met to elect ordinary fellow and P.C.Ray proposed the name of Prof. Himdari Kumar Mookerjee, Nilratan Sircar, Professor and Head of the Dept. of Zoology as one of the fellows and he was elected as declared by the Dean.

P.C.Ray was present in the special meeting of the Faculty of Science on 10th Jan. 1944, where Meghnad Saha Presided as Dean. The Dean declared P.C.Ray's name as a member of the Board of Studies in Chemistry.

The Senate meeting on 29th Jan, 1944. Constituted the Faculties and P.C.Ray was one of the members in the Faculty of Arts and Science for the year 1944 - 45.

On 29th Jan, 1944, In the Senate meeting the Vice-Chancellor declared the faculties to be constituted as fellows for the year 1944-45 and P.C.Ray's name was included in both Faculty of Science and Arts for the year 1944-45.

On 26th Feb, 1944, the Faculty of Science (Special) met to elect added members for the year 1944-45 P.C.Ray proposed Prof. Priyadaranjan Ray's name (Khaira Professor of Chemistry) in the Board of Studies in Chemistry for 1944-45 and he was declared elected.

On 25th March, 1944, the Faculty of Science (Special) met to elect members of the Boards of studies for the year 1944-45 and in Chemistry P.C.Ray's name was proposed for election along with others and the Dean thereupon declared them elected. P.C.Ray was the member of the Boards of Studies in Chemistry (P.C.Ray's last meeting in the Calcutta University) for the year 1944-45.

P.C.Ray expired on 16th June, 1944.

The Senate (Special) met on 24th Jun, 1944, in remembrance of Sir Praphulla Chandra Ray. In that special meeting Hon'ble H.G. Caseey, His Excellency, the Chancellor, presided where 55 members of the Senate were present including Radhabinod Pal, the Vice-Chancellor.

The Chancellor said, *'Sir Praphulla Chandra Ray - a man outstanding in heart, mind and spirit and he was a leader of his generation and the benefactor of Generation that followed'.*

Few excerpts from his speeches is worthy of quotation.

"True greatness springs from a combination or synthesis of the main qualities of human goodness - qualities that are seldom endowed one at a time and still rarer in unqualified combinations. Learning without understanding, knowledge without application, sympathy without direction these are the gifts of lesser men. But Sir Praphulla Chandra Roy's qualities were untrammelled, and so-we perceive it clearly - he achieved greatness and lived his life greatly." The resolution of condolence was recorded.

"The Senate place on record their deep sense of Sorrow at the death of Sir Praphulla Chandra Ray, KIT, CIE, D.Sc., Ph.D, F.C.S, F.R.A.S.B. He rendered great services to the University as its first Palit Professor of Chemistry, as a Dean of the Faculty of Science, as a Fellow, as a Benefactor, a scientist of worldwide reputation, the creator of the School of Chemistry in India, an educationist of liberal ideas, a true patriot, a great philanthropist, a friend of the poor and a ploneer of industrial regeneration in this province, Sir Praphulla Chandra Roy

was a dynamic personality and was deeply loved and revered by his countrymen. To generations of students, he was an ideal teacher and his saintly ways of life were an example to all. By his death, India has lost one of its greatest sons, and the University has suffered an irreparable loss."

Almost all the members of the Senate were present on that date. All the Speeches of the Senators as recorded, are in this volume.

The Senate resolved unanimously that:

1. In order to perpetuate the memory of the Late Sir Praphulla Chandra Ray and to commemorate his connection with the study of Chemistry in this University steps be taken to raise a sum of Rs. 500,000 for the establishment of a chair in the University on some Applied branch of Chemistry to be called the Sir Praphulla Chandra Ray Scholarship in Chemistry.
2. The Professorship be in the grade Rs.700-50/2-1000.
3. A Research Fellowship of the value of Rs. 200 per month be also created under this endowment, the Fellow to work under the guidance of the Professor.

The Syndicate be authorised to take necessary steps in the matter and to frame detailed rules governing the above Professorship and the Fellowship.

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Sir P. C. Ray's role in the Calcutta University as recorded in the published book 'Hundred years of the University of Calcutta (1957)'

The Universities Commission in Jan 1902, was formed with Rayleigh as President and five Englishmen as members and its report submitted on 9th June 1902. The Hunter Commission and Rayleigh Commission on Education created uproar in the Indian University bodies. Gokhale complained that the report was prepared in consultation with the European while keeping 'Indian educationists at a safe distance from Simla'.

(Hundred years of the University of Calcutta- 1957)

Asutosh Mookerjee's reaction, *'I deny most emphatically that it is necessary or desirable to have any provisions in the law which may possibly convert the University into a mere Dept. of the state; it is quite possible to stunt the growth of a beautiful tree by constant pruning and too affectionate care'*.(pp-171-172)

This was also criticized by other stalwarts like Acharya P.C.Ray, Rabindranath Tagore, Gooroodas Banerjee, Vice-Chancellor (1890-1892) and others.

Only in 1906 new regulation was promulgated by the Calcutta University to take over the control of the affiliated colleges while earlier the sole function of the University was to conduct the examination only. The colleges affiliated to the University were connected with the University by way of regular inspection and it was in*****

'The University which is no longer to be restricted to its scope of an examining body with power to grant Degrees, but is in future to undertake PG (Post Graduate) teaching and ultimately form a centre for the cultivation and advancement of knowledge' — Asutosh Mookerjee, as Vice-Chancellor remarked in his convocation address in 1908 and later on when the Calcutta University was in deep financial crisis, in 1915 that the University's request to the Government of India did not yield any positive result and later on Govt. of India was persuaded to form a Committee to review the management of the P.G. teaching in 1919 with the chairmanship of Sir Asutosh Mookerjee and P.C.Ray was a part of the nine members committee, the unanimous report of which was submitted on the 12th Dec, 1916.

Sadler Commission in its report in 1919 recommended a grant of Rs. 1,25,000 per year to the Calcutta University and the effective PG teaching was reflected in the convocation address by His Excellency the Chancellor, Ronaldshay in 1922, *'The greatest landmark in the history of the University in recent years is undoubtedly the creation of the Council of the PG studies.'* (P-193)

The Sadler Commission also opined regarding grant to the Calcutta University that *'such expenditure of money would, in the long run, be an economy, as well*

as in other ways, a boon to Bengal; and through Bengal, to India and to the World.' (P-195)

The University bodies faced a great financial crisis as the recommendation of the commission earlier mentioned were on ,papers only and were not implemented by the Government of India. Another crisis was faced by the Calcutta University because of shortage of more than 40% students' intake resulting from the boycott movement of Gandhi. The Senate on 9 Sept, 1922 formed a strong committee to examine the letter of the Govt. of India comprising P.C.Ray as one of the members under the chairmanship of Sir Asutosh Mookerjee. There were 8 conditions imposed by the GOI in that letter, two of them were *"actual receipts of expenditure under every fund should be submitted to the Govt. of Bengal in every month"* and *"no further expansion involving financial responsibility would be undertaken by the University until their financial position showed an improvement"*.

On a historic Senate meeting in 2nd Dec, 1922, P.C.Ray emphasized the supreme issue of 'autonomy and freedom' and the University must not barter away its freedom for a mess of poltage.

'A grave crisis is looming large in the horizon of our national intellectual progress. We are threatened with a national disaster..... In the evening of my life, I thought I might hand down to our successors the lamp which we have been able to light so very dimly, so that it might burnt brilliantly is about to be extinguished..... We shall not go down on our knees. We are not to cry 'peceavi'. We are not charity boys. We are not Oliver Twists.' (P-199)

The relation between the Govt. and the University (C.U.) became 'strained' during the period 1921-1923. The University was accused of being 'guilty' of 'thoughtless expansion' by the Govt. of Bengal and in a letter dated 23.8.1922 sanction of a grant of Rs. 2.50 Lacs putting eight conditions. By that time earlier reports of the Secy. to the Govt. of India were thoroughly discussed in the Senate/Syndicate of the University. The committee of the Senate placed its report which was published by the University in July 1922. Again on 9th Sept, 1922 Senate of the University appointed a seven-member Committee to look into the letter of the Govt. of Bengal headed by Sir Asutosh Mookerjee and P.C.Ray was one of its members in both the committees.

The conditions put forth by the Govt. were *'not merely undesirable but also impracticable'* as per report of the Committee and the desire of the Govt. to obtain control over the University in a manner in contravention of the Indian Universities Act 1904 was also highly undesirable.

Calcutta University appealed to the Govt., for a grant of Rs 2.5 lacs only but due to imposition of so much conditionality , this was rejected by the Senate unanimously. In the convocation address of the Vice-Chancellor dated 18.03.1922, Sir Asutosh Mookerjee roared, "The University is thus the

instrument of the state for the convocation of knowledge, for the applications of knowledge, and above all, for the creation of knowledge makers." (P-207)

As per Woods' Education Despatch of 1854, " it would be advisable to establish in connection with the Universities, Professorships in various branches of learning" and in order of the additional non existing branches of learning, "the most important of those branches was law." Thus Law College came into being in 1908. Medicine and Engineering Colleges had already been established earlier.

Another Important event of the University was the Sir Taraknath Palit's endowment of seven Lacs of Rs, 4.5 Lacs in cash + 2.5 Lacs in Property in 1912, June. The endowment was for professorships, one each in Physics and Chemistry , to be offered to the persons born in India only. The first holder of the Palit professorship was Sir P.C.Ray in Chemistry, and C.V. Raman in Physics w.e.f Aug 8, 1913. Sir Rashbehary Ghose donated ten Lacs of Rupees "for the promotion of Scientific and technical education and advancement and for the cultivation and advancement of science pure and Applied, amongst my countrymen, by and through indigenous agency." out of the endowment four professorships, one each in (a) Applied Mathematics, (b) Physics, (c) Chemistry, (d) Botany with special reference to agriculture were to be created and maintained. The posts were filled up by the Indians only as per condition of the endowment.

Other donations received by the University were from (a) Maharaja Manindrachandra Nandy of Cossimbazar a sum of Rs. 50,000/-, (b) Maharaja Pradyot Kumar Tagore a sum of Rs. 10,000, towards the founding of the law college library and the entire library of his valuable law books left by his grand Uncle Prosunno Coomer Tagore.

On 27th December, 1919 another gift from Rashbehary Ghosh, a sum of Rs. 11,43,000 for the purpose of technological instruction and research on certain conditions was received by the University. The Senate in its meeting accepted this gift on 3rd Jan, 1920. (pp-270-271)

A gift from Kumar Guruprad Singh of Khaira, subject to the life interest of Rani Bagiswani Devi a sum of Rs. 6,50,000 was received by the Senate dated 3.1.1920 and 30.6.1921. *"By his will of 23rd May, 1920, Rashbehary Ghosh, the prince among donors, directed the executors of his estate to make over to the University out of his estate another sum of Rs. 2,50,000 for the foundation of travelling fellowships."*

In 1921, Prankrishna Chatterjee of Calcutta made a gift of one hundred bighas of land (20x3 acres) at Ikrah in the district of Burdwan.

The Senate on 11.11.1922 accepted a donation of the full salary of Dr P.C.Ray (his own salary from 1916 to 1936).

From the gift of Raja of Khalra the Senate adopted a resolution on 6th Aug 1921 for establishment of 5 University Professorships for one each in

1. Indian Fine Arts,
2. Phonetics,
3. Physics,
4. Chemistry,
5. Agriculture.

All the posts were to be filled up by Indians only.

Regarding the University's role for the advancement of learning the Chancellor, Lord Lytton, stated in his convocation address on 24.3.1923, "I regard Calcutta University as primarily a great human factory and I am anxious to see that it supplies the commodity which is most required."

What commodity was cleanly explained by the Vice-Chancellor Asutosh Mookerjee;

"It is my pleasant duty gratefully to acknowledge that the whole time University teachers who cannot look forward to any external source of income, voluntarily kept a substantial portion of their salaries in abeyance, while lecturers who are connected with colleges or may rely upon other source of income, have, in many instances, ungrudgingly confined their association with our work without any remuneration. To crown all, Professor Sir Praphulla Chandra Ray, that veteran founder of the Indian School of Chemistry, who has also made his name illustrious as the guardian angel of suffering humanity, has offered to surrender his entire salary for a term of five years for the special benefit of the Dept. which is proud to acknowledge him as its leader." (P-291)

In a meeting of the Syndicate held on 7th March 1908, the Silver Jubilee of the University was decided to be observed and certain steps for the purpose were also taken. The steps included scientific lectures by Father Lafont, Professor P.C.Ray and Professor S.C.Mahalanobis and exhibition of scientific apparatus, etc. (pp-317-18)

After completion of his tenure of Vice-Chancellorship, Sir Asutosh Mookerjee received a letter from Lord Lytton, the Chancellor. In reply to which, a historical letter was sent by Sir Asutosh Mookerjee on 26th March 1924. A few of the excerpts may be worth mentioning. *'If you have the courage to publish to the world all the documents on the subject and the entire correspondences which has formed between us, I shall cheerfully accept the judgment of an impartial public.'* (P-298)

"..... I shall finally consider your offer to reappoint me as Vice-Chancellor, subject to a variety of conditions. There are expressions in your letter which imply that I am an applicant for that post and I am in expectation of

reappointment. Let me assure you that if you and your Ministers are under such an impression, you are entirely mistaken.

.....you have one before you, who can speak and act fearlessly according to his convictions, and you are not able to stand the sight of him. It may not be impossible for you to secure the services of a subservient Vice-Chancellor, prepared always to carry out the mandates of your Government, and act as a spy on the senate. He may enjoy the confidence of your Government but he will not certainly enjoy the confidence of the Senate and the public of Bengal..."

(pp-298-300)

It may be worthwhile to mention the remark of Rabindranath Tagore after the demise of such a Stalwart, Sir Asutosh Mookerjee, on 25th May 1924: *"Asutosh heroically fought against heavy adds for winning freedom for our education."*

The Vice-Chancellor, receiving a letter from the Education Minister of Bengal on 10th May 1923 was surprised to see the following lines.

.....'It will be difficult for the Government to give you and the Syndicate any definite assurance of financial assistance'.

More so, two bills were referred to in that letter, one was heavy Muslim representation in the Composition of the Senate and the other was that the Minister of Education, Bengal, should be the ex-officio Rector of Calcutta University.

The Senate in its meeting on 24th Feb 1923, after examining the two Bills, formed a Committee with the Chairmanship of Asutosh Mookerjee along with 13 other members, Praphulla Chandra Ray one of them....

Later on, the Government of Bengal informed the University to send its representatives for a discussion with the Government of Assam over the two Bills as per suggestion of the University. The Syndicate in its meeting dated 31.08.1923 decided to send a team of 11 representative members at the conference to be held on 20 and 22 August, 1923. Later on receiving a letter from the Secretary, Govt. of India, Dept. of Education, Health and Land to the Govt. of Bengal proposed to arrange to hold a University Congress at Simla. At the Simla conference the Syndicate recommended that Senate should send a six member delegation, - Praphulla Chandra Ray and Asutosh Mookerjee were amongst them. (P-307)

On Post Graduate study and research the University in spite of the financial crunch showed remarkable achievements in the 1920's and 1930's

In the Post Graduate Depts. under the guidance of eminent physician and Scientist Nilratan Sircar, and with PC Ray as the Palit Professor of Chemistry, a band of young chemists hold different important chairs of the University e.g. B.C.Guha (Applied Chemistry) P.C.Mitra (Ghose Professor of Chemistry) Hemendra Kumar Sen (Ghose Professor of Applied Chemistry) Jnanendranath

Mukherjee (Khaira Professor of Chemistry). All of them made tremendous achievements in their own field.

Physics Dept. was under the able leadership of Professor CV Raman (Palit Professor of Physics), of reputed scientist of the whole world and elected fellow of the Royal Society in 1924 and winner Nobel Prize in 1930 for his *Molecular Scattering of Light* theory.

Debendramohan Bose (Ghose Professor), Sisir Kumar Mitra, a pioneer of radio research in India, holding the Khaira Chair of Physics, Phanindranath Ghose holding the Ghose Chair of Applied Physics, were some of the pioneers in Physics research in India.

In Mathematics, Ganesh Prasad holding the Head chair in Pure Mathematics, Syamadas Mukherjee, the Professor of Pure Mathematics as well as Haridas Bagchi, S.M.Ganguli, H.P.Banerjee who worked on theory of Plane Curves, Geometry of Hyperspaces and theory of functions were the luminaries of the University.

In applied mathematics, Nikhil Ranjan Sen who worked on theory of relativity, Nripendranath Sen and Suddhodan Ghose who made substantial contributions to Hyperdynamics made tremendous achievements.

Botany Dept. boasted SP Agarkar, P Brühl, an eminent German scholar on palaeontology, Crystallography, Coal etc. Reputed Journals were also published by the dept.

In the Dept. of Zoology (Proto Zoology), Physiology, Anthropology, Psychology, Geology vast achievements shown by the stalwarts of those Depts.,

Hemchandra Dasgupta, Sarat Lal Biswas, Nirmal Chandra Chatterjee carried their researches on Palaeontology, Crystallography, Coal etc. Reputed journals were also published from these Depts.

In Zoology, Basanta Kumar Das, Himadri Kumar Mookerjee made contribution to the various fields of Zoology, comparative embryology and Harendra Kumar Roy contributed to the field of proto Zoology.

Similarly in the Dept. of Physiology Subodh Chandra Mahalanobis, Upendra Nath Brahmachari, Bijalibehari Sarkar, Narendra Nath Bose, Parimal Bikash Sen were the luminaries.

In the Dept. of Anthropology, Ramprasad Chanda, L.K.Ananta Krishna Iyer, Panchanan Mitra, Taraknath Das, T.C. Roychowdhury made valuable contributions to the research of the subject. Important books on the subjects were also published by those teachers.

In the Dept. of Psychology (Started in 1926) Narendra Nath Sengupta, Girindra Sekhar Bose and Suhritchandra Mitra were the notable contributors of the research work.

In the Dept. of Arts, Professor Hiralal Halder and Syamaprasad Mookerjee, Abanindranath Tagore, Henry Stephen, Joypal Banerjee, Hermabachandra Maitra and Praphulla Chandra Ghosh, I.J.S. Taraporewala, Suniti Kumar Chatterjee were the stalwarts in various Depts. and Brajendranath Seal, Priya Ranjan Sen, Pramathanath Banerjee, Jitendraprasad Niyogi, Jogeschandra Sinha in the field of Philosophy. Without reference to the inspiring Professors of Indian Vernacular, Economics, the list of luminaries would be incomplete.

In the Dept. of Sanskrit and History, teachers illustrious like Surendranath Sen, Indubhusan Banerjee, A.P.Dasgupta, N.C.Ray, Bhagabant Kumar Goswami, Guruchandan Tarakadarshan Tirtha, Krishnacharan Tarakalankar, N.S.Ananta Krishna Sastri, Sitaram Sastri, and other stalwarts contributed a great to the world of literature. They published important documents, books, research works which are still treated as reference works. Many other names are not included in the list. On the composition of the senate, the two Bills had earlier been referred to and the Senate, to be composed of 160 members to be elected or nominated as hereunder:

a) At least $1/4^{th}$ should be elected by the registered teachers of all affiliated colleges.
b) At least $1/4^{th}$ should be elected by the registered graduates of at least 7 years standing.
c) $1/10^{th}$ should be elected by the learned societies and important public bodies.
d) $1/5^{th}$ should be elected by the University Professors, Lecturers and Principals of first grade colleges.
e) $1/10^{th}$ should be elected by the teachers in the high schools under the University.
f) $1/10^{th}$ to be nominated by the Government.

Government afterwards appointed Jenkins for the preparation of a Bill for the reorganization and reconstitution of the University, the report of which was placed on 20.12.1930 in the Senate.

The Senate after discussion in its meeting on 7th March 1930, postponed its decision and the matter was thus shelved.

After independence, Indian University Commission appointed by the Union Ministry, Headed by Dr. Sarvapalli Radhakrishnan submitted its first report, to forge a uniform system of education throughout India. Mudaliar Commission formed for the Secondary Education recommended for eleven-year school

courses and three-year Degree courses that should be uniformly implemented throughout the States.

The Higher Education Commission opined to replace the 1904 Act by the 1951 Act and the general outline was uniformity in line of the Commission's report. The democratic structure of the University was:

The Senate is the supreme governing body and its size has been enlarged by the inclusion of elected representatives of the affiliated colleges, the Professional colleges, the Constituent colleges, University Teachers, registered graduates etc. It has 13 constituencies, the biggest being that of registered graduates and the next being that of the affiliated colleges. The Syndicate has been reconstituted as a larger body to include representatives of the Senate and of the Academic Council which is an academic authority of the University which controls and regulates teaching, research and examinations and for the maintenance of standards thereof. It is composed of teachers with a quota fixed for non teachers, elected by the Senate from among its members.

In the Act 1951, a record number of 15,000 persons were enrolled as registered graduates and new bodies were formed and their appointed date was 12 March, 1954.

In 1951, 1100 high schools were transferred from the University to the Board and Visva-Bharati of Shantiniketan became a separate University and its students needed no longer to sit for the examination under Calcutta University.

Regarding students, C.F. Andrews deplored in his convocation address in 1938 that Indian Universities had lost their tradition of Gurukul in which teachers used to share the life of their students – the ideal example of Sir P.C.Ray in this regard was cherished by scores of his distinguished pupils and the students expected to develop their intellectual capacity and habits of self-discipline.

An excerpt from the 1935 convocation address given by Syamaprasad Mookerjee: *"... If with the cooperation of the Principals and Professors and the students themselves, a scheme of work, aiming at simultaneous growth of intellect and building of health and character steadily continues and develops, if this can gradually sow the seeds of unity, organization and discipline..... we shall be helping to create a new Bengal....."* (P- 415)
With the introduction of vernacular as medium of instruction, the isolation of the University from the people of the soil during the first eight decades of its life was broken as per demand and continuous efforts by Rabindranath Tagore, P.C.Ray, and others. And in this way the University of Calcutta touched the heart of people from all walks of life.

The History of University College of Science and Technology, Calcutta: In the eyes of Dr.S. K. Mitra & Dr. J. N. Mukharjee

1. History Of The Foundation

"I have now described to you, in feeble language, the story of the lofty ideals which have animated the promoters of the College of Science, of the munificent gifts by two of our illustrious countrymen which have rendered the realisation of those ideals possible and the truly patriotic personal sacrifices which distinguished Indian scholars and investigators have proved themselves ready to undergo in the search after truth, in the full belief that which we know is but little, that which we know not is boundless. But although we are constrained to acquiesce in a humble beginning our hopes are well-founded. We confidently look forward to gradual expansion, to a life of steady growth and uninterrupted activity; for our cause is noble, and we are inspired by the invigorating belief that science in its ultimate assertions echoes the voice of the living God".

It is just above ten years, in March 27, 1914, that Sir Asutosh with words laid the foundation stone of the College of Science. He visited the building at 92, Upper Circular Road for the last time in March 21, 1924, when one of the Indian Scholars above referred to was given a reception on his being elected a fellow of the Royal Society.

The history of the foundation of the College of Science, though more or less known, is of so unique a character in the educational history of our country that it would bear repetition. When the new regulations of the Calcutta University came into operation, provision was made for appointing University Professors, Readers and Lecturers with a view to transform the Calcutta University from a mere examining body or even a federation of college to a teaching University, and a real centre of the advancement of learning.

The University took the first step towards the realisation of this ideal in 1908-9 by appointing men like Dr. Thibaut, Prof. Schuster, Dr. Holland as readers and also by arranging for lectures to post-graduate student in Pali, Vedic literature and Hindu Philosophy. On the occasion of the visit of Their Imperial Majesties in 1912, the Government of India promised a recurring grant of Rs. 65.000 annually for founding chairs in Economics, in Philosophy and in Mathematics and for promoting generally post-graduate study and research. The University so long could not develop the Depts. of science on account of lack of funds, the erection and maintenance of up-to-date scientific laboratories being always a costly affair. On the 1st of July 1912, the University received from Sir T.N. Palit, a princely gift of money and landed property valued at that time at about 7 lacs of Rupees. The gift was the first of its kind in the annals of a University in India. The admiration and gratitude of the public which this splendid gift then evoked

were enhanced, when on the 8th of October of the same year, Sir Taraknath made a second gift of an another 7 lacs for the same purpose. In compliance with the condition of the Trust Deeds, the University founded two chairs, one in Physics and the other in Chemistry. It was expressly stated in the deed that the object of the founder was "the promotion and diffusion of scientific and technical education and the cultivation and advancement of science pure and applied among the countrymen by and through indigenous agencies." The University on its side agreed to provide from its own funds suitable lecture-rooms, libraries, museums, laboratories, workshops and other facilities for teaching and research.

The efforts of the University to establish a College of Science were further advanced when about a year later, in 1913, Sir Rashbehary Ghose made over to the University a sum of Rupees 10 lacs. The trusted deed provided for the establishment of four chairs viz.. in Physics, Chemistry, Mathematics and Botany, in furtherance of the same object as that of the Palit Trust. The University now proceeded to build the laboratories on the grounds of 92, Upper Circular Road left to them by the first Palit Trust. The cost of the new buildings came up to about 3 lacs of Rupees which was met out of the surplus funds of the University. About six years later on 22nd December, 1919, Sir Rashbehary Ghose made over to the University a further sum of eleven lacs and forty-three thousands to be applied exclusively for the purpose of technological instruction and research. Two chairs, one in Applied Chemistry and other in Applied Physics were to be maintained out of it, and the balance of the fund after payment of salaries of professors and scholarships was to be applied for the maintenance of the necessary laboratories, museums and workshops. The University was fortunate in securing in 1921 through the efforts of Sir Asutosh a further endowment of five lacs and a half of Rupees from Kumar Guruprosad Singh of Khaira for the foundation of five professorships. Three of these chairs (in Physics, Chemistry and Agriculture) were attached to the University College of Science and technology and the other two (in Fine Arts and Indian Linguistics) to the Dept. of post-graduate studies in arts.

2. Obligation of the University under the Trusts

These trusts have undoubtedly thrown heavy responsibilities on the University. The University has undertaken to provide from its own funds such recurring and periodical grants or contributions as may be required for the following purposes: (as specified in the trust deeds).

"For the maintenance and upkeep of the professorships or the chairs in the event of the income of the said properties ..... proving insufficient."

"For the maintenance of the libraries, laboratories, museums and workshops in such a condition of efficiency as may be required and approved of by the Governing Body, subject to the control of the Senate."

"For the maintenance and repairs of the buildings and structures ..... at No. 92, Upper Circular Road."

"For the payment of all rates taxes and other impositions payable in respect of the premises No. 92, Upper Circular Road."

"For provision for laboratories, museum, workshops, appliances and all other requisites essential for the due discharge of their duties by the Professors and Readers."

The University has since then frequently urged upon the custodians of the public funds for financial aid to enable it adequately to meet these obligations. But the only results has so far been a permission from the Government to divert a sum of Rs. 12,000 annually for the maintenance of the Science College from the annual grant of Rs. 65,000 to the University mentioned before. In view of the unique nature of these benefactions it has generally been felt by the public of Bengal that it is the solitary instance where the Government have not encouraged private donations by liberally supplementing them from public funds.

3. Present financial position and difficulties

The College of Science could have really met the obligations imposed on it by the trusts, if it were possible to spend practically whole of its private endowments of 40 lacs towards the building and equipment of its laboratories, and, if the recurring grant for maintenance of the staff, laboratories and workshops were supplied form public funds. The grounds at 92, Upper Circular Road and the grounds and buildings at 35, Ballygunj Circular Road representing capitalized value of about 6 lacs have been respectively utilized for erection and maintenance of University laboratories. The rest, after making provisions for two chairs, some assistant professors and a few studentships does not leave anything for the maintenance of the laboratories not to speak of any research grant to the professors. The first Ghosh Trust cannot even meet the full pay of the professors and University has to contribute towards the maintenance of the laboratories and the pay of the professors. The second Ghosh Trust, which has got to be utilized solely for the purpose of developing the technological Depts, is somewhat better off. It provides for the salaries of the two professors, one lecturer, one draughtsman, one mechanic and has a surplus of about 20 thousand Rupees. It must be mentioned that there is no provision for lecturers or assistants for the Dept. of Applied Physics and that the Applied Chemistry Dept. is also undermanned. We have also to remember that the opening of applied science Depts. always necessitates large capital expenditure for establishment and equipment of laboratories and workshops with modern apparatus and appliances. Though inaugurated in 1920 these Depts. have not been able to make much headway owing to lack of funds. Chemistry Dept. has been partially opened but the Physics Dept. is hopelessly underequipped and is

unable even to make a start. The Khaira Fund founded from the donation of Kumar Guruprased Singh, out of which three professorships and to research studentships are maintained in the College of Science leaves no surplus at all, though, the University contributes Rs. 6,000 towards the pay of the professors. There are two professorships in Botany, and Ghosh trust can only provide for one on Rs. 500 a month from its fund and the University maintenance form its own funds the other chair on Rs. 1000 per month. There is also a chair for Zoology on Rs. 800 (at present vacant) maintained by the University. The University College of Science (both at Upper Circular Road and at the original Palit Buildings at Ballygunj) undertakes the post-graduate teaching in Physics, Chemistry. Mathematics, Botany, Zoology and the undergraduate teaching in Physiology.

The staff, the establishment and the laboratories for this purpose in Physics, Chemistry, and Mathematics, together with the whole of the Depts. of Zoology and Botany, for which there is practically no endowment, is maintained from the University fee fund.[2]

The financial stringency and the hopeless inadequacy of the fee fund of the Calcutta University to meet all its requirements have been well known for some time past. The effect of continual strain on the University funds is felt in the workings of the College of Science, in as much as for want of adequate help, not only the opening of new Depts. is out of question, but even the existing Depts. of the teachers and the equipments and running of the laboratories cannot be properly met with. The University cannot rely on a definite income from the fee fund and has not been able to make a fixed recurring grant to the College of Science. The budget is provisional only for the year and the appointments of teachers have also to be made from year to year. This system has continued for about 9 years. The financial prospects offered by Govt. Depts, by other universities and educational institutions all over the country including Bengal are more than double of that offered by this University for the same type of work. When terms of appointments are so insecure and unsatisfactory, and prospects not on par with what obtained in other places, it is no wonder that members of the staff would accept appointments elsewhere offering secure and incomparably better conditions. In 1916 when the college was started there were, apart from professors, 18 lecturers assisting the professors in the post-graduate teaching work distributed in the Depts. of physics, Chemistry, Mathematics, Botany and Zoology. This number has been

[2] When the post-graduate Depts were started, it was resolved to set apart for their maintenance one-third of the examination fees realised from the Matriculation, Intermediate and B.A. and B.Sc. Candidates. This constitutes the fee-fund of the post-graduate Depts.

reduced to 11 in 1923, the vacancies occurring could not be filled up owing to lack of funds.

Since 1919, altogether 10 members of the staff, whose pay ranged from Rs. 200 to Rs. 400 per month were offered and accepted appointments on pay ranging from Rs. 400 to Rs. 1250 in other places, e.g. Govt. Meteorological Dept, other newly founded universities, Govt. research laboratories and the Dept. of His Majesty's Mint. Vacancies occurring in the endowed chairs were of course filled up by new recruits (who in their turn not infrequently left us when better prospects were offered) but in most cases, as indicated above, vacancies in lectureships could not be filled up. Difficulties arising out of dearth of workers were sometimes avoided by creating posts, which, though going by the names of assistant to professors, were in reality posts of lecturers for doing only post-graduate work.

4. Some Immediate Needs

The public will have an idea of the extent to which we are hampered in our work if they care to know the actual state of affairs. The buildings at 92, Upper Circular Road, erected in 1914-15 were never put to repairs; with the result that small faults here and there have developed into large cracks to such an extent that some immediate mishap is not impossible. A thorough repair of the buildings is necessary for which the University engineers have estimated the cost to be Rs. 36,000. The University sanctioned last year Rs. 30,000 for repairs, but this money was not available for expenditure, An amendment to provide a similar sum this year has been moved and carried in the last budget meeting of the Senate and has gone to swell the already deficit budget of the University. We do not know if it would be possible for the University to sanction this expenditure as actual cash may not be available. For want of funds the teaching work is suffering no less and we feel very strongly the awkward situation in which we are placed when, for example, for want of a few thousands of Rupees, our water-supply fails for hours together day after day with the result that all types of work have to be suspended. Sinking of a tube-well has been suggested but that is again a matter of expense. Then again there is the question of centralization of the whole science Dept. at one place.

The ground of 92, Upper Circular Road were originally intended to be such a centre. But owing to insufficiency of accommodation in the existing building, the Zoology and Botany Depts. have been located in the Palit Building at Ballygunj to the great inconvenience of the management and the students. Then there is the Dept. of Experimental Psychology, Which, though belonging to the Dept. of Arts is housed here because no accommodation for it could be found in the University buildings. It is expected that when the building on the fish market site are complete, sufficient room would be available for the experimental Psychology Dept. to be transferred there. In the meantime for

want of space rooms cannot be spared even for so necessary a purpose as a library and a reading room for the College of Science. We need hardly argue the point that the absence of a suitable and moderately equipped library and reading room in a way defeats the purpose for which this institution has been founded but unfortunately this is the situation. All the laboratories are ill provided with apparatus and appliances. We cannot even provide for essential experiments which it is our duty to do, if the proper standards have to be maintained Students have to be taken out to other in situations to show them the apparatus they would have used if we had them. We were so long carrying on with apparatus lent to us by the St. Xavier's and Shibpur Engineering Colleges Recently we had to return those apparatus as we cannot keep them indefinitely on loan, and we have not been able to replace them We need not tired the patience of our readers with further details of all our urgent needs such us lecture-halls, quarters for menials etc.

To bring together all the Depts. and thus secure unity of control it has been suggested in some quarters that the present building and grounds of 35, Ballygunj Circular Road be sold out, and a part of the sale proceeds be utilized for adding a new wing to the buildings at 92. Upper Circular Road and the rest invested in capital account. It of course depends on the Palit Trust and the Governing Body of the Science College to decide what to do. We have tried to give an idea of our needs and it is our belief that the public of Bengal will see to it that the great ideal for which Sir Asutosh laboured so much and for which these great sons of Bengal have given their all will be preserved and achieved.

5. The utility of maintaining Institutions like The College Of Science

We would like hate to make a few comments on the utility and the need of maintaining well-equipped centres of higher research in the country. The industrial greatness of any nation lies in the facilities it can afford to competent men to develop invents and perfect industrial processed. It is simply impossible to do so unless a member of our young men can devote themselves to such a task and unless we can give the requisite training in science and in scientific research. These pursuits are of a highly technical nature and are always costly affairs but yielding later a hundredfold return.

One of the most essential responsibilities which all modern universities have to undertake is to afford adequate facilities in this direction. Mere book learning or an acquaintance with the ordinary laboratory methods does not make an individual fit to discharge his duties as a University teacher He has of course his useful place as a teacher importing knowledge already acquired, but he cannot take a share in guiding young men in making any advancement in science, which is certainly one of the essential tasks of a University. Unfortunately in the whole of Bengal we have only three centres which to certain extent offer

facilities for making definite contributions to human knowledge by scientific research, namely two in Calcutta (the presidency college and the science college) and the third at Dacca. (University Dept. of Science.) These institutions have never received that amount of public support of the donors to the science college, lies in their foresight and clear vision, and the public will do well to dwell upon the reasons which led these great men to bequeath their all for such a purpose.

We would draw the attention of the public to the efforts which are now being made by other countries. Most modern nations have well organized Depts. which keep a record of the research organizations in their own and other countries. In England, We have such an organization in the Advisory council for Scientific and Industrial Research. They have issued a series of papers on this Subject which have been published by His Majesty's Stationery Office in London and we would request those who want to enter into a discussion in this subject to read them. Industrial research in modern countries is undertaken by manufacturing corporations, associations of manufacturers, University and colleges, National institutes, commercial laboratories and scientific societies. Most of these countries spend crores of Rupees annually on research in pure and applied sciences. But they are not satisfied with what facilities they have provided for research as they feel that in order to keep their industries going they required more. Dr. Whitney, the Director of the research laboratories of the General Electric Company, in an address (The Engineer March 16, 1917, pp. 245-6) deplored the neglect of true scientific research in universities and colleges of the United States and pointed out how essential researches in pure science always are to industrial a advance (Science and Industry). Lord Milner in his book on "The Elements of reconstruction lays great emphasis on the necessity of the United Kingdom to readjust "its sense of 'Scale' in dealing with the problems of Industry and among them research", If this is true of England and America after the colossal efforts already made there in this direction, can we justly say that "we are doing the lest that we ought to do in the matter here in India?"

We quote the Following Lines from "Science and Industry" a Pamphlet by Prof. A.P.M. Fleming. M.I.E.E., who is one of the founders of wireless telephony.

"Among the most progressive firms there is a growing appreciation of the fact that almost every discovery in science ultimately may have its influence on Industry. Such firms devoted increasing attention to research of this character, and In some cases special laboratories have been installed quite distinct from the ordinary research laboratory for this purpose *** Industry is the basis of national prosperity, and every resource should he used to facilitate its progress *** In this respect research is of the utmost importance, and it must be regarded as an indispensable weapon *** The success. However of any comprehensive scheme of research depends largely upon the attitude of the manufacturers and it is therefore of high national importance that they should

not only appreciate the value of the application of science in industry but also cooperate in assuring that it is applied systematically and sufficiently. Among the questions that arise immediately out or the need of industrial research is that of the education and training of men for all grades of industrial employment *** It is not less necessary to give attention to the scientific training of those who proceed to the higher positions in industry from the universities, and particularly to impart to such students a thorough knowledge of the fundamentals of manufacturing economic. The development of research on a large scale and the consequent possibilities of absorbing and lucrative employment, will tend to attract to the ranks of Industry many of the ablest young men who now a day's enter non-productive professions *** Such measures cannot be introduced successfully unless they are supported by public opinion and a great need therefore exists for bringing continually before the public the necessity of industrial research, why its possibilities and benefits *** A new phase in Industrial and economical life is commencing and its development will be governed very largely by the extent to which new scientific knowledge is obtained and turned to the benefit of mankind it is by the progressive use of research every advance of which opens up ever wider industrial possibilities, by the fullest employment of the nation's inherent manufacturing capacity, and by the wise cooperation of labour and capital, that the prosperity of this country can be assured".

We realise that we cannot maintain so many institutions on the scale which the United States or the United Kingdom can afford. We simply plead for maintaining the few institutions we have in a state of efficiency. We believe that the public will agree with us that it is a very modest proposition that we are laying before them and will realize the fundamental importance of such institutions in making our industrial regeneration possible.

6. Scope of Our Present Activities

The activity of the present institution is twofold. On the one hand it provides facilities for research for members of the staff not only to enable them to keep abreast of the latest progresses in their respective subjects, but also to contribute their own quota toward the advancement of science, and on the other hand, it gives that basic training to students which is essential for anybody intending to enter an industrial career. A worker not conversant with the scientific principles underlying the industrial processes and not acquainted with the method of research can be useful only to a very limited extent He can seldom go beyond the work as laid down in his routine to initiate anything new, his outlook is not wide, and he practically comes down to the level of an ordinary labourer, where he ought by virtue of his training to be the guiding force always improving and inaugurating.

The possibilities of an institution like this where both the pure and the applied sciences are studied side by side is perhaps not apparent to all. As mentioned

above the great industrial concerns of the West spend immense sums of money to maintain research laboratories and trained staff of scientists, (not necessarily *experts* in any particular branch of industry) who devote their time and energy towards the solution of industrial and manufacturing problems. They make innovations, bring about improvements, and not infrequently make discoveries which bring back, literally a million fold of the money spent on them. It cannot of course be expected of our young industries that they would spend large sums of money for maintaining laboratories and research staff, and it is here that and Institution like this can be of real help to them if the resources that are there are properly utilize. The trained staff of research workers here can always take up and study scientific problems offered to them by industrial concerns, and can give valuable advice as to the directions in which improvements are to be sought.

This institution has already proved its usefulness in these respects. Advice has been sought with profit by a number of firms and as the institution becomes more known and its utility is realized more fully by the public we believe it will be able to render substantial service in this respect. Students trained here have already made themselves useful in various capacities, such as analyst, works chemist, technical adviser, teacher in technical institutions, manufacture, Research chemist and electrical engineer.

As regards the class of research work carried out here, utmost efforts have been made, in spite of many difficulties, to keep up the name and prestige of this institution as a centre of learning. Research in various subject like scattering and diffraction of light, study of α-ray tracks, structure of crystals by X-Ray, physico-chemistry of colloids, effect of electrostatic field on aerosols, studies in heterocyclic ring formations etc have been taken up and successfully carried out here, and have won for this institution not only a name in India but also abroad. A systematic study of the "Atmospherics" which cause so much disturbance to wireless reception in this country is also being taken up, but cannot make much progress for want of funds.

During our stay in Europe, we had occasion to visit a great many important universities and laboratories in England and on the continent. In all these seats of learning nothing made us feel a respect for ourselves as Indians more than the appreciations which the work of our Indian scientists in recent years received everywhere. It was with a sense of pardonable pride that we noticed that contributions from our fellow workers in Calcutta University were regarded as valuable additions to science in its various branches and also to find that the names of some of our colleagues were held in esteem.

We were repeatedly asked how was it that scientific research of such a high and permanent value and in such abundance too could be done by alumni of an Indian University like that of Calcutta of the very existence of which European savants and scientists were ignorant a decade ago!

7. Suggestions

In conclusion, we would like to place before the public certain concrete proposal which would go a long way to place this institution on a sounder and stabler basis. The institution ought to be placed above the depressing sense of doubt as to the recurring expenditure which it experiences in the beginning of each year. A definite annual recurring grant ought to be provided by the University consistent with its financial resources, to supplement the income from the donations. We shall then know where we are, and the Governing Body of the college of science can then frame its own draft budget. During the last few years the University has contributed on an average72 thousand of Rupees from its fee funds. If the University can afford to sanction this amount as a recurring grant then a recurring grant of another Lac and a half of Rupees will be necessary to run the institution *as it is* in a state of efficiency. Capital expenditure to the extent of 10 Lacs of Rupees are simultaneously necessary to meet urgent commitments. The donors have given nearly 45 lacs of Rupees, the University has spent about 10 lacs of Rupees (including 3 lacs, the cost of erecting the buildings), Spread over a period of 10 years, (out of which Rs. 1,20,000 represents Government contribution), Is it too much to expect that the modest demand we have made would be met by the Government and the public?

Lastly, we would like to add that this institution, occupying a tender spot in the hearts of the people of Bengal, Ought not to be judged only from a materialistic standpoint. A nation does not live by bread alone. The cultural side, which characterises the civilisation of a nation which lies idle while other countries are devoting their men and money for search after truth, is bound to lose in the estimation of others as well as in their own. This institution, during the eight years of its existence has tried, in its own humble way under most trying circumstances, to raise the status of our country by proving that we as a nation are no less capable of making advancements in the realm of science.

India no Longer would be a mere silent spectator of the forward march of western countries in search after truth. She can now hope to take her place among them, fully conscious that her efforts would ultimately go towards increasing the bounds of human knowledge.

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Note from the Editor

The Calcutta University started its post-graduate Depts. in few branches of Science in 1916. The history of advancement of the Calcutta University is associated with the advancement of the departmental progress, and the laboratories of the Science Depts. need more funds in addition to other expenses. In those days, the central government as well as the provincial government's grant to the Calcutta University, the only single University in the eastern region of India, was uncertain. The agonies were expressed & and even protests were raised from the Senate Syndicate - the examples of which are shown in the proceedings of the meetings of the relevant bodies in those days.

The contribution from the Govt. was only 2% towards development of Science Dept. whereas the contribution from the public was nearly 98% (P.C.Ray). The gift from S.R. Palit was Rs. 14 Lac In 1912 in two phases and the gift from Rashbehary Ghosh was Rs. 10 Lac in 1913 In the first phase.

This article was written jointly by Dr. S.K. Mitra and Dr. J.N. Mukherjee. Both of them were associated with the Calcutta University's Post-Graduate Depts. of Physics and Chemistry. The history of Science Depts. is well written in this article. It was published in the 'Modern Review' for September 1924 (pp-268-276) and is reproduced here.

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Royal Society honour for the father of Indian chemistry

[News item, dated 29 September 2011]
Source: http://ukinindia.fco.gov.uk/en/news/?view=PressR&id=662739982

P.C.Ray was the first Indian to gain a Doctorate in Chemistry.

The Royal Society of Chemistry (RSC) honoured the life and work of talented chemist Acharya Praphulla Chandra Ray with the first ever Chemical Landmark Plaque outside Europe.

Dr Robert Parker, the newly-appointed chief executive of the RSC, made the announcement in Kolkata at the launch of the report Developing Talent in the Chemical Sciences on Wednesday.

P.C.Ray was the first Indian to gain a doctorate in chemistry and was a prodigious publisher of scientific research. Widely considered 'the father of Indian chemistry', his work will be honoured with a Chemical Landmark Plaque in Kolkata.

He started a new Indian School of Chemistry in 1924 and he invested his own money in the Bengal Chemical and Pharmaceutical Works in Kolkata in 1893, which has become the leading manufacturer of many basic chemicals in India.

"This is just a small selection of his achievements and I am delighted to announce this award – our first outside of Europe – to such an eminent scientist," said Dr Parker.

The RSC awards Chemical Landmark Plaques to places where important chemical breakthroughs have taken place. Previous landmarks include King's College London for the discovery of the structure of DNA, and Paris for the awarding of the Napoleon medal to Humphrey Davy during the Napoleonic Wars.

The plaque itself will be awarded at a special ceremony by RSC President Professor David Phillips in Kolkata next February.

Praising the talent and work of P C Ray, British Deputy High Commissioner Sanjay Wadvani welcomed Royal Society of Chemistry and the Developing Talent Initiative. He said it was essential that academic links between Bengal and the UK develop as it will be to the mutual benefit of both economies. He also hoped to see tangible closer ties between academia and business and industry which would develop research ideas into practical solutions for the economies and the people.

Developing Talent in the Chemical Sciences comprises recommendations for growth of Indian chemical science, based on the discussions at a unique workshop where industry and academia came together to define how to develop talent and innovation in India.

"The Developing Talent Initiative marks the beginning of what I believe could lead to impressive growth in the chemical sciences in India and the UK, growth that is best achieved through working together," said Dr Parker.

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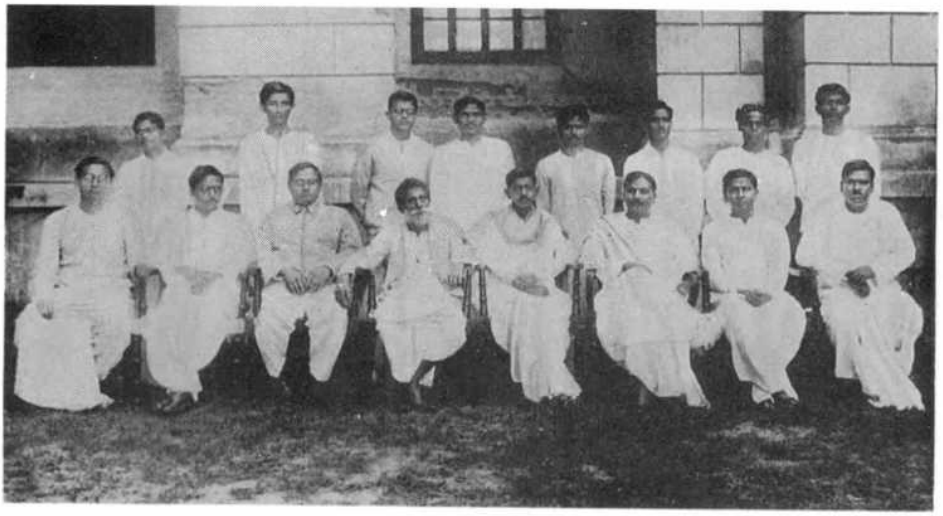
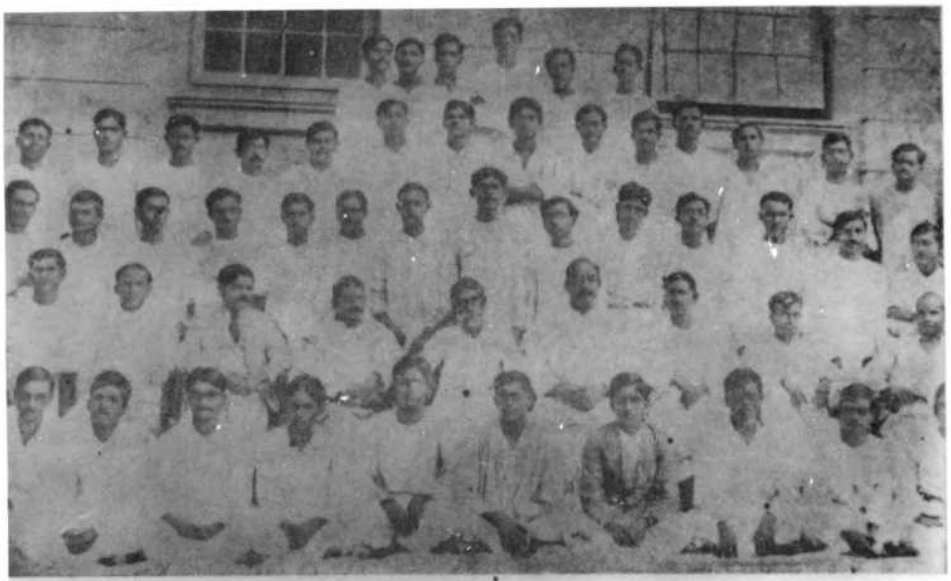


ACHARYA RAY WITH THE STAFF AND STUDENTS OF THE PHYSICAL CHEMISTRY DEPARTMENT, UNIVERSITY COLLEGE OF SCIENCE IN 1934.

Sitting (L.-R.)—N. P. Chattopadhyaya, S. P. Raichaudhuri, K. K. Kumar, Acharya Ray, Dr. J. N. Mukherjee, Dr. J. C. Ghosh, S. G. Chaudhuri, P. N. Kundu.
Standing (L.-R.)—M M. Biswas, S. S. Das Gupta, M. Majumdar, S. Ganguli, Ashu Chatterjee, Bhabes Chandra Ray, R. P. Mitra, Ardhendu Bhattacherjee.

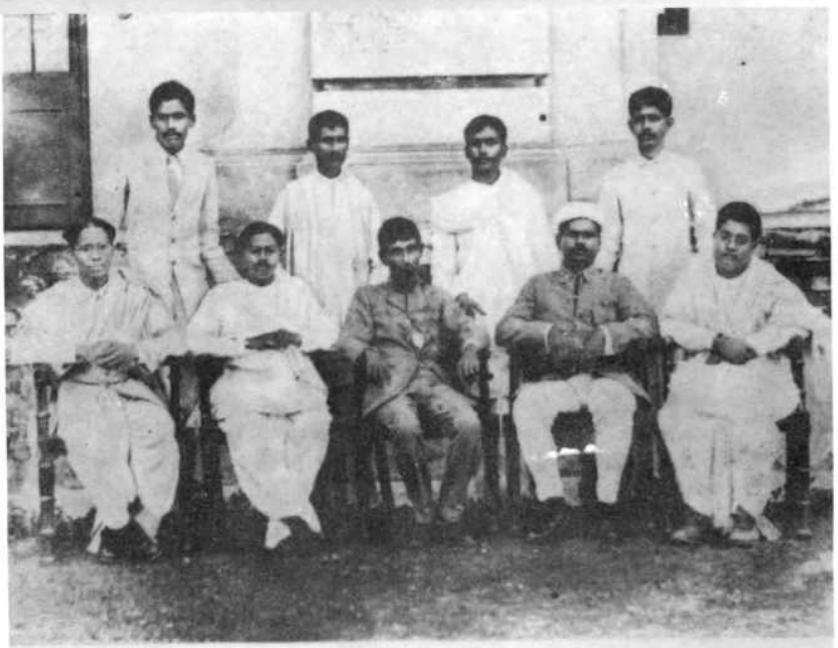
ACHARYA RAY AT THE UNIVERSITY COLLEGE OF SCIENCE WITH THE STAFF AND SCHOLARS OF THE DEPARTMENT OF INORGANIC CHEMISTRY (1942)

Sitting (L.-R.)—Dr. J. Gupta, Prof. P. Ray, Acharya Ray, Dr. P. B. Sarkar, Mr. A. K. Majumdar.
Standing (L.-R.)—Ramprit, Mr. N. K. Dutt, Mr. A. S. Bhaduri, Mr. S. P. Ghosh, Mr. N. Sen, Mr. A. Majumdar, Mr. B. Chakrabarty, Mr. K. R. Chakravarty, Mr. B. C. Purkayastha, Brajen.



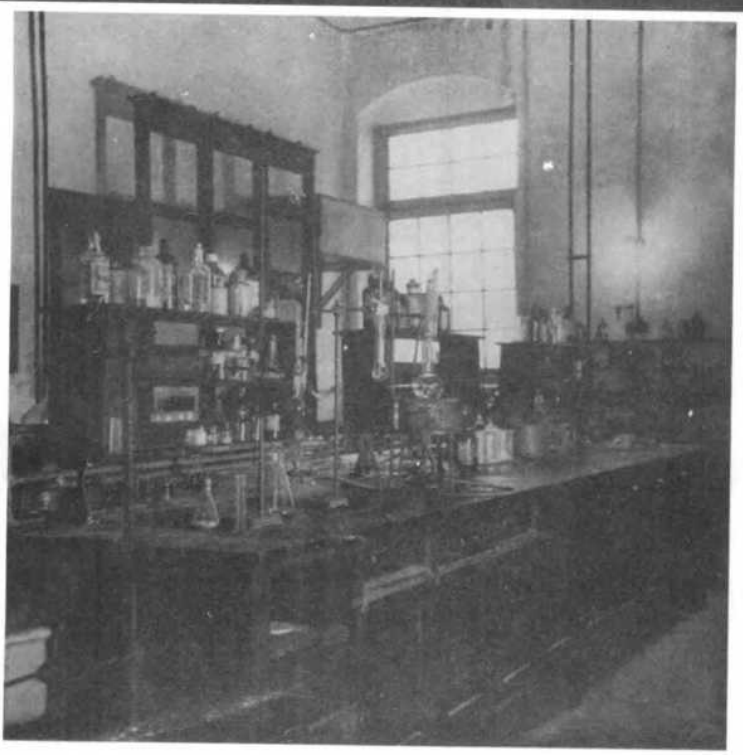
XX. ACHARYA RAY WITH HIS COLLEAGUES AND STUDENTS.
(University College of Science — 1928)

Sitting (L. to R.) — M. N. Goswami, P. B. Sarkar, J. N. Mukherjee, P. Ray, Acharya Ray,
(Colleagues) — P. C. Mitter, H. K. Sen, P. K. Bose, B. C. Ray.



XI. ACHARYA RAY WITH SOME OF HIS PUPILS (1914-15).

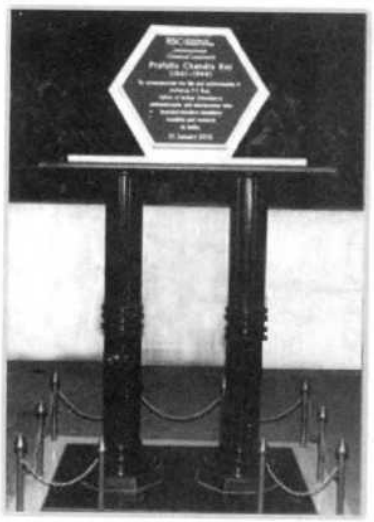
Sitting (L. to R.)—P. B. Sarkar, Amaresh Chakravarti, Acharya Ray, T. S. Muttu, S. N. Bose.
Standing (L. to R.)—M. N. Saha, U. N. Karmakar, J. C. Ghosh, J. N. Mukherjee.
(*By courtesy of Sm. Nilima Ghosh*)



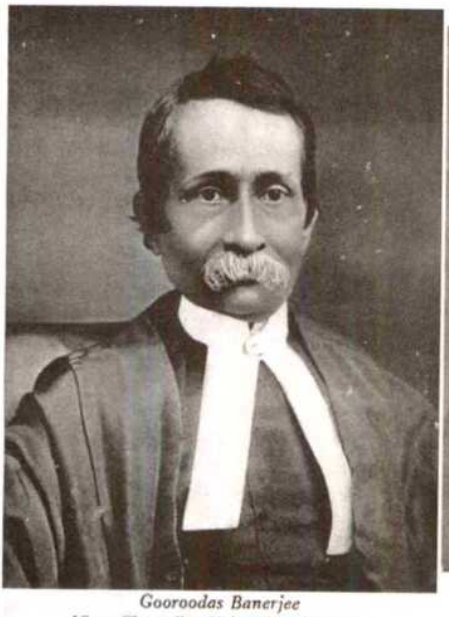
ACHARYA RAY'S LABORATORY.
(University College of Science)

PRESIDENCY COLLEGE CHEMICAL LABORATORY

(Here Acharya Ray used to work.)

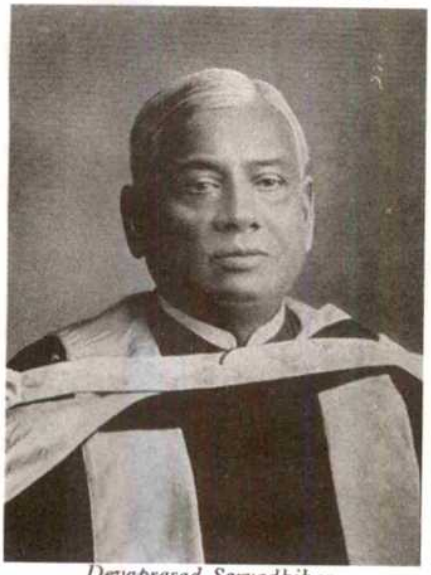


The Chemical Landmark Plaque presented by the Royal Society of Chemistry (2012)



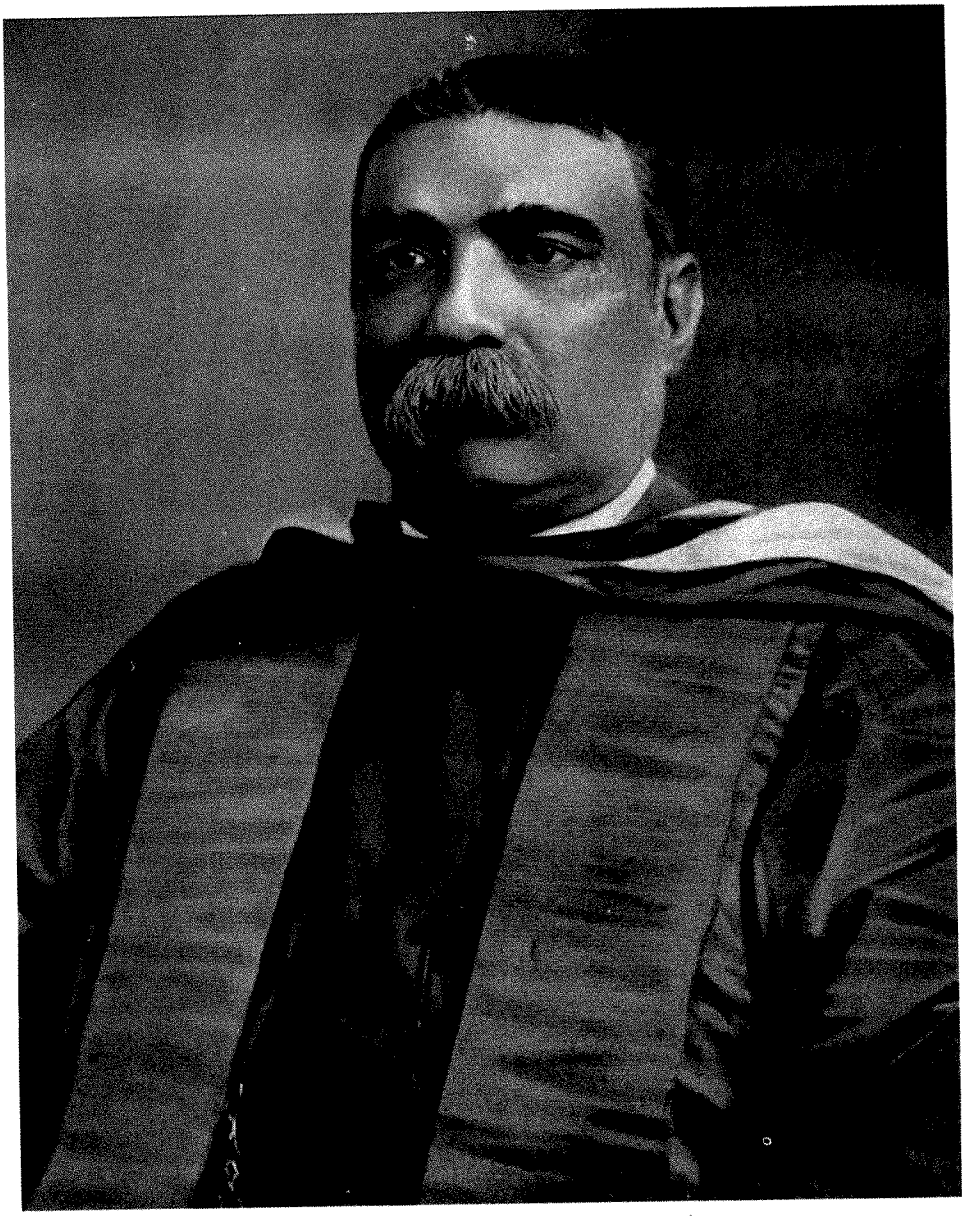
Gooroodas Banerjee
Vice - Chancellor, University of Calcutta
1 January, 1890—31 December, 1892

Alexander Pedler
Vice-Chancellor, University of Calcutta
2 April, 1904—30 March, 1906



Devaprasad Sarvadhikary
Vice - Chancellor, University of Calcutta
31 March, 1914—26 March, 1918

Nilratan Sircar
Vice - Chancellor, University of Calcutta
31 March, 1919—3 April, 1921



Asutosh Mookerjee

Vice - Chancellor, University of Calcutta

31 March, 1906—30 March, 1914
4 April, 1921—3 April, 1923

Hassan Suhrawardy
Vice - Chancellor, University of Calcutta
8 August, 1930—7 August, 1934

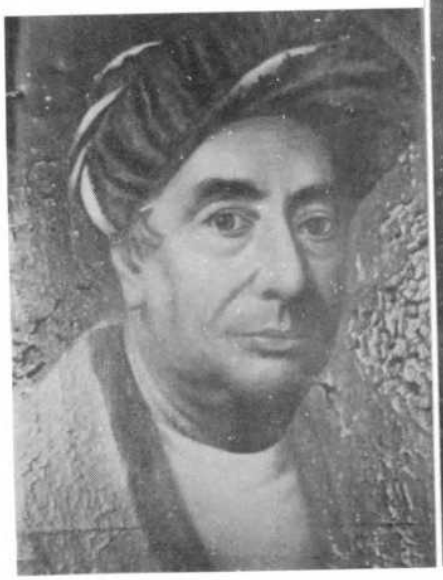
Radhabinod Pal
Vice - Chancellor, University of Calcutta
13 March, 1944—12 March, 1946

Satyendranath Bose

Meghnad Saha

Tarak Nath Palit

Rashbehary Ghose



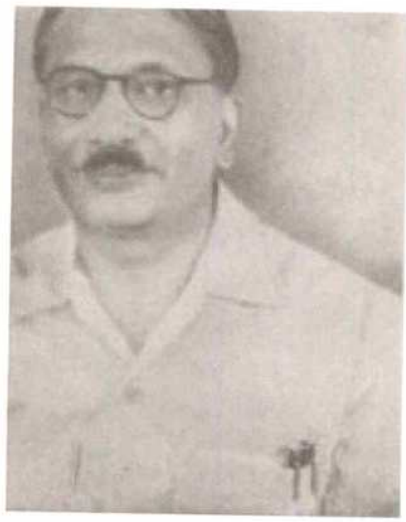
Prosunno Coomar Tagore

Premchand Roychand

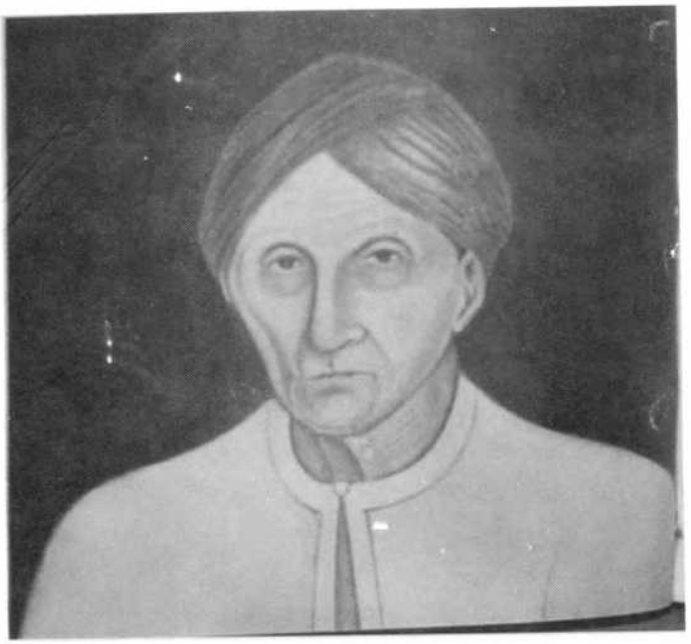
Maharaja Rameswar Singh
of Darbhanga

Rajendralal Mitra

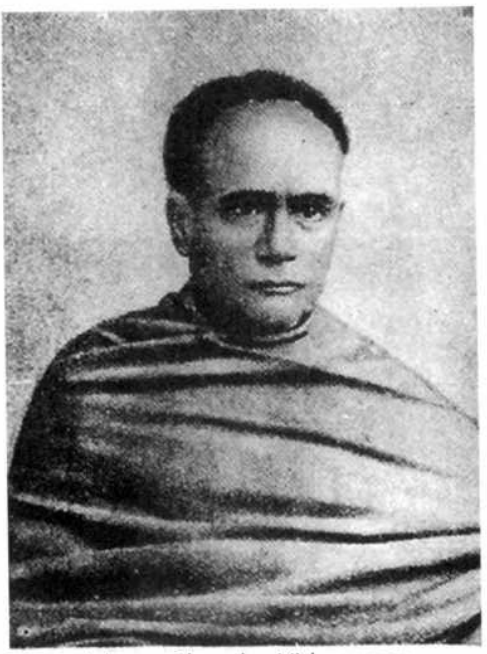
Nilratan Dhar



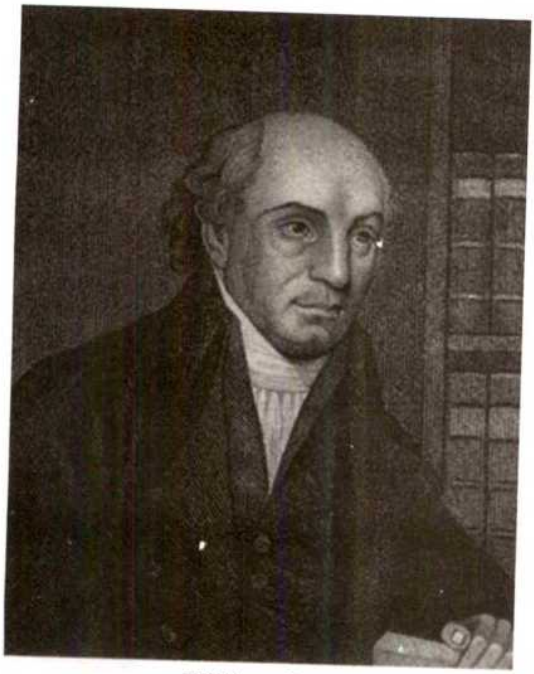
Jnan Chandra Ghosh



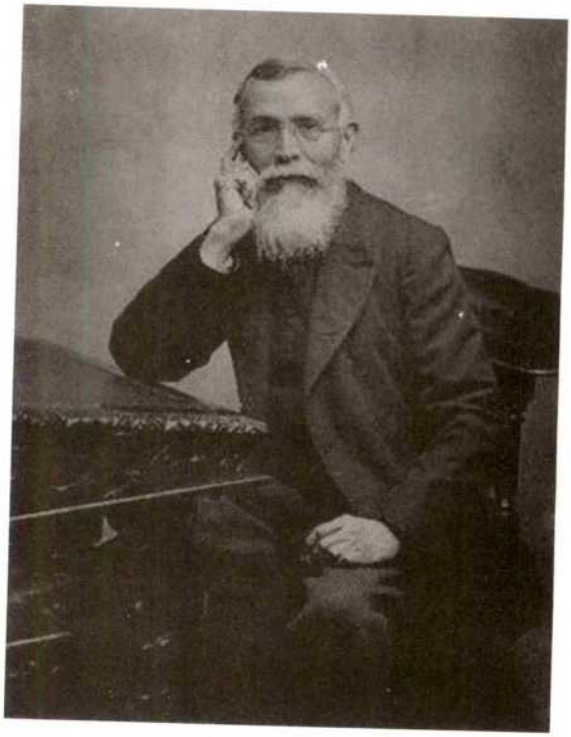
Muhammad Mohsin



Ishwar Chandra Vidyasagar



William Carey



Surendranath Banerjee

Raja Rammohan Roy

Bankim Chandra Chattopadhyay